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<b>(54) Title:</b> SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION PRODUCT  <b>(57) Abstract</b>  Partial and complete human cDNA and genomic sequences corresponding to particular expressed sequence tags (ESTs). The ESTs are cDNA sequences that are generally between 150 and 500 base pairs in length, are derived from human brain cDNA libraries, correspond to genes transcribed in human brain, and have base sequences identified herein as SEQ ID NOS: 1-2421.		

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**SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION  
PRODUCT**

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**Technical Field**

The present invention relates to newly identified polynucleotide sequences corresponding to transcription products of human genes, and to complete gene sequences associated therewith.

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**Background**

This invention relates to human genes. Identification and sequencing of human genes is a major goal of modern scientific research. The sequence of human genes is more than just a scientific curiosity. For example, by identifying genes and determining their sequences, scientists have been able to make large quantities of valuable human "gene products." These include human insulin, interferon, Factor VIII, tumor necrosis factor, human growth hormone, tissue plasminogen activator, and numerous other compounds. Additionally, knowledge of gene sequences can provide the key to treatment or cure of genetic diseases (such as muscular dystrophy and cystic fibrosis). The present invention represents a quantum leap forward in mankind's knowledge of human gene sequences.

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There are several basic concepts of molecular biology which figure prominently in the invention. A brief explanation of those concepts follows. Additional background information and definitions for scientific terms can be found

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in the literature. See, for example, "Glossary of Genetics, Classical and Molecular" by R. Rieger, A. Michaelis, and M.M. Green (Fifth Edition, Springer-Verlag, New York (1991)). The contents of this and other publications cited in the specification are incorporated by reference herein.

At an initial level, the present invention is based on identification and characterization of gene segments. Genes are the basic units of inheritance. Each gene is a string of connected bases called nucleotides. Most genes are formed of deoxyribonucleic acid, DNA. (Some viruses contain genes of ribonucleic acid, RNA.) The genetic information resides in the particular sequence in which the bases are arranged. A short sequence of nucleotides is often called a polynucleotide or an oligonucleotide.

Like genes, polypeptides are built from long strings of individual units. These units are amino acids. The nucleotide sequence of a gene tells the cell the sequence in which to arrange the amino acids to make the polypeptide encoded by that gene. In general, chains of up to about 200 amino acids are called polypeptides, while proteins are larger molecules made up of polypeptide subunits; both types of molecules are referred to generally herein as polypeptides. A triplet of nucleotides (codon) in DNA codes for each amino acid or signals the beginning or end of the message (anticodon). The term codon is also used for the corresponding (and complementary) sequences of three nucleotides in the mRNA into which the original DNA sequence is transcribed.

Generally, enzymes in the cell transcribe the permanent DNA of the gene into a temporary RNA copy, called messenger RNA or mRNA. The mRNA, in turn, can be translated into a polypeptide by the cell. This entire process is called gene expression, and the polypeptide is the gene product encoded by the gene.

Scientists have previously discovered how to reverse the transcription process and copy mRNA back into DNA using an

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enzyme called reverse transcriptase. The resulting is called complementary DNA, or cDNA. This is schematically shown in the single Figure. When substantially all of the mRNA from one cell or tissue is converted to cDNA at once and cloned into multiple copies of a recombinant vector to allow replication and manipulation in the laboratory, the result is called a cDNA library.

The various types of genes include those which code for polypeptides, those which are transcribed into RNA but are not translated into polypeptides, and those whose functional significance does not demand that they be transcribed at all. Most genes are found on large molecules of DNA located in chromosomes. Double stranded cDNA carries all the information of a gene. Each base of the first strand is joined to a complementary base (hybridized) in the second strand. The linear DNA molecules in chromosomes have thousands of genes distributed along their length. Chromosomes include both coding regions (coding for polypeptides) and noncoding regions; the coding regions represent only about three percent of the total chromosome sequence.

An individual gene has regulatory regions that include a promoter which directs expression of the gene, a coding region which can code for a polypeptide, and a termination signal. The regulatory DNA sequence is usually a noncoding region that determines if, where, when, and at what level a particular gene is expressed.

The coding regions of many genes are discontinuous, with coding sequences (exons) alternating with noncoding regions (introns). The final mRNA copy of the gene does not include these introns (which can be much longer than the coding region itself), although it does contain certain untranslated regions that usually do not code for the polynucleotide gene product. Untranslated sequences at the beginning and end of the mRNA are known as 5'- and 3'-untranslated regions,

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respectively. This nomenclature reflects the orientation of the nucleotide constituents of the mRNA.

A cDNA is a DNA copy of a messenger RNA, which contains all of the exons of a gene. The cDNA can be thought of as having three parts: an untranslated 5' leader, an uninterrupted polypeptide-coding sequence, and a 3' untranslated region. The untranslated leader and trailing sequences are important for initiation of translation, mRNA stability, and other functions. The untranslated leader and trailing sequences are called 5'- and 3'-untranslated sequences, respectively. The 3' untranslated sequence is usually longer than the 5' untranslated leader, and can be longer than the polypeptide-coding sequence. The untranslated regions typically have many, randomly-distributed stop codons, and do not display the nonrandom base arrangements found in coding sequences. The 5'-untranslated sequence is relatively short, generally between 20 and 200 bases. The 3'-untranslated sequence is often many times longer, up to several thousand bases.

The translated or coding sequence begins with a translational start codon (AUG or GUG) and ends with a translational stop codon (UAA, UGA, or UAG). Generally, translation begins at the first "start" codon on the mRNA and proceeds to the first "stop" codon. Coding sequences can be distinguished by their nonrandom distribution of bases; numerous computer algorithms have been developed to distinguish coding from noncoding regions in this way.

Human DNA differs from person to person. No two persons (except perhaps identical twins) have identical DNA. While the differences, called allelic variations or polymorphisms, are slight on a molecular level, they account for most of the physical and other observable differences between individuals. It has been estimated that approximately 14 million sequence polymorphism differences exist between individuals.

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The ability of one strand of DNA to attach or hybridize to a complementary strand has already been exploited for several purposes. For example, small pieces of DNA (15 to 25 base pairs long) can be made which will hybridize to longer strands of DNA which have a complementary sequence. These short "primers" can be selected such that they hybridize to a specific, unique location on the longer strand. Once the primers have hybridized to their target on the DNA, the polymerase chain reaction (PCR) can be employed to generate millions of copies of (or amplify) the particular segment of DNA between the locations to which two primers are bound. Briefly, this technique allows amplification of a DNA region situated between two convergent primers, using oligonucleotide primers that hybridize to opposite strands. Primer extension proceeds inward across the region between the two primers, and the product of DNA synthesis of one primer serves as a template for the other primer. Repeated cycles of DNA denaturation, annealing of primers, and extension result in an exponential increase in the number of copies of the region bounded by the primers.

Similarly, a labeled segment of single-stranded DNA can be hybridized to a longer DNA sequence, such as a chromosome, to mark a specific location on the longer sequence. Segments of DNA 50 bases long or longer that hybridize to a unique DNA location in the human genome are extremely unlikely to hybridize elsewhere in the human genome.

The Human Genome Project is an effort to sequence all human DNA (the human genome). The human genome is estimated to comprise 50,000 - 100,000 genes, up to 30,000 of which might be expressed in the brain (Sutcliffe, *Ann. Rev. Neurosci.* 11:157 (1988)). Once dedicated human chromosome sequencing begins in three to five years, it was expected that 12-15 years will be required to complete the sequence of the genome (Report of the Ad Hoc Program Advisory Committee on Complex Genomes, Reston, Va., Feb. 1988, D. Baltimore Ed. (NIH, Bethesda, Md, 1988)). At that rate, the majority of

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human genes would remain unknown for at least the next decade. The present invention can greatly accelerate the pace at which human genes can be identified and mapped. Most gene researchers, in conjunction with publication of their results in this field, submit sequence data to the GenBank database. Prior to the present invention, GenBank listed the sequences of only a few thousand human genes and less than two hundred human brain mRNAs (GenBank Release 66.0, December, 1990).

The role of sequencing complementary DNA (cDNA), reverse transcribed from mRNA, as a part of the human genome project has been vigorously debated since the idea of determining the complete nucleotide sequence of humans first surfaced. The coding sequence of all human genes represents most of the information content of the genome, but only 3-5% of the total DNA. In contrast, cDNA (which is only made from the transcription product of active genes) is one-half to three-fourths (the remainder being 5'- and 3'-untranslated sequence) meaningful genetic information. Thus, some have argued that cDNA sequencing should take precedence over genomic sequencing (Brenner, *CIBA Found. Symp.* 149:6 (1990)). However, until now, such arguments have not been heeded.

Genomic sequencing proponents have argued the difficulty of finding every mRNA expressed in all tissues, cell types, and developmental states, and that much valuable information from intronic and intergenic regions, including control and regulatory sequences, will be missed by cDNA sequencing. (Report of the Committee on Mapping and Sequencing the Human Genome, National Research Council (National Academy Press, Washington, D.C. 1988)). Further, sequencing of transcribed regions of the genome using cDNA libraries has heretofore been considered impractical or unsatisfactory. Libraries of cDNA were believed to be dominated by repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes comprising common or housekeeping sequences. It was believed that cDNA libraries would provide few sequences

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corresponding to structural and regulatory polypeptides or peptides. See, for example, Putney, et al., *Nature* 302:718-721 (1983). Putney, et al. sequenced over 150 clones from a rabbit muscle cDNA library and identified clones for 13 of the 19 known muscle polypeptides, including one new isotype but no unknown coding sequences.

Another perceived drawback of cDNA sequencing was that some mRNAs are abundant, and some are rare. The cellular quantities of mRNA from various genes can vary by several orders of magnitude. This led critics to believe that most information obtained from cDNA sequencing would be repetitious and useless.

The present invention demonstrates that, despite such skepticism, cDNA sequencing now provides a rapid method for obtaining enormous amounts of valuable genetic information and DNA products of great utility for the biotechnology and pharmaceutical industries. Not only can many distinct cDNAs be isolated and sequenced, even partial cDNAs can be used, with conventional, well-understood methods, to isolate entire genes, and to determine the chromosomal locations and biological functions of these genes. As is demonstrated here, fragments of only a few hundred bases are sufficient, in many cases, to identify the probable function of a new human gene if it is similar in structure to a gene from another animal, or from plants or bacteria. Similarly, even fragments of untranslated regions of a cDNA can be used to: i) isolate the coding sequence of the cDNA; ii) isolate the complete gene; iii) determine the position of the gene on a human chromosome, and hence the potential of the gene to cause a human genetic disease; and iv) determine the function of the gene by means of experiments in which the function of the native gene is disrupted by the addition of a short DNA fragment to the cell, e.g., using triple helix or antisense probes.

Because coding regions comprise such a small portion of the human genome, identification and mapping of transcribed

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regions and coding regions of chromosomes is of significant interest. There is a corresponding need for reagents for identifying and marking coding regions and transcribed regions of chromosomes. Furthermore, such human sequences are valuable for chromosome mapping, human identification, identification of tissue type and origin, forensic identification, and locating disease-associated genes (i.e., genes that are associated with an inherited human disease, whether through mutation, deletion, or faulty gene expression) on the chromosome.

#### SUMMARY OF THE INVENTION

Contrary to the expectations of the scientific community, cDNA screening and sequencing techniques have now been used to discover a large number of heretofore unknown human genes. Disclosed herein are over 2,400 new human polynucleotide sequences. These sequences could represent up to 5% of all human genes. The novelty of these sequences has been established through comparison to both nucleotide sequence databases and amino acid sequence databases. Surprisingly, over 80% of the sequences generated were unrelated to any sequences previously described in the literature.

The sequences of the present invention were ascertained using a fast approach to cDNA characterization. This approach could facilitate the tagging of most expressed human genes within a few years at a fraction of the cost of complete genomic sequencing, provide new genetic markers, provide new DNA-based therapeutics and diagnostics, and provide other valuable nucleotide reagents.

The sequences disclosed herein, styled Expressed Sequence Tags ("ESTs"), are markers for human genes actually transcribed *in vivo*. Techniques are disclosed for using these ESTs to obtain the full coding region of the corresponding gene. The use of ESTs, complete coding sequences, or fragments thereof for marking chromosomes, for

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mapping locations of expressed genes on chromosomes, for individual or forensic identification, for mapping locations of disease-associated genes, for identification of tissue type, and for preparation of antisense sequences, probes, and constructs is discussed in detail below. Unlike the random genomic DNA sequence tagged sites (STSS) (Olson et al., **Science** 245:1434 (1989)), ESTs point directly to expressed genes.

Various aspects of the present invention thus include the individual ESTs, corresponding partial and complete cDNA, genomic DNA, mRNA, antisense strands, triple helix probes, PCR primers, coding regions, and constructs. Also, where one skilled in the art is enabled by this specification to prepare expression vectors and polypeptide expression products, they are also within the scope of the present invention, along with antibodies, especially monoclonal antibodies, to such expression products.

#### BRIEF DESCRIPTION OF THE DRAWING

The single drawing Figure schematically illustrates the progression from chromosome to gene to mRNA to cDNA.

#### DETAILED DESCRIPTION OF THE INVENTION

The detailed description that follows provides not only the actual sequence of each new EST, but also explains how the ESTs were obtained, how to obtain the corresponding complete cDNA sequence and the corresponding genomic DNA sequence, how to make DNA constructs from the ESTs and corresponding sequences, how to use those sequences as reagents in molecular biology and other fields, how to produce gene products from the ESTs and corresponding sequences and antibodies to those gene products, and the functional categories of many ESTs and corresponding genes. Furthermore, numerous actual working examples and predictive

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examples are provided to demonstrate and exemplify numerous aspects of the invention.

#### I. ESTs from cDNA Libraries

5       The sequences of the present invention were isolated from commercially available and custom made cDNA libraries using a rapid screening and sequencing technique. In general, the method comprises applying conventional automated DNA sequencing technology to screening clones, advantageously  
10       randomly selected clones, from a cDNA library. Preferably, the library is initially "enriched" through removal of ribosomal sequences and other common sequences prior to clone selection. According to the present method, ESTs are generated from partial DNA sequencing of the selected clones.  
15       The ESTs of the present invention were generated using low redundancy of sequencing, typically a single sequencing reaction. While single sequencing reactions may have an accuracy as low as 97%, this nevertheless provides sufficient fidelity for identification of the sequence and design of PCR  
20       primers.

      Most human genes can be identified by EST sequencing from libraries of cDNA copies of messenger RNAs. However, some genes are expressed only at specific times during embryonic development, or only in small amounts in a few  
25       specific cell types. Other genes have mRNAs that are degraded very quickly by the cell in which they are expressed. If any of these are the case, transcripts of the gene will not be represented in cDNA libraries so the gene will not be identifiable by EST sequencing. A new method  
30       called "exon amplification", however, can be used to isolate and identify transcripts of such genes.

      Exon amplification works by artificially expressing part or all of a gene that is contained in a cloned fragment of genomic DNA such as a cosmid or yeast artificial chromosome  
35       (YAC). The gene is cloned into a special vector, designed at MIT, that uses control elements from virus genes to express

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the protein-coding exons of the human gene of interest. Exon trapping shows considerable promise as a general technique for identifying those genes in the human genome that cannot be found by cDNA cloning and EST sequencing. Exon amplification will also be useful for identifying the genes in regions of genomic DNA to which disease genes have been mapped. The exon amplification method can be used directly with the cosmid and YAC clones from human chromosomes that are being obtained by both NIH and DOE supported human genome centers. ESTs comprise DNA sequences corresponding to a portion of nuclear encoded messenger RNA. An EST is of sufficient length to permit: (1) amplification of the specific sequence from a cDNA library, e.g., by polymerase chain reaction (PCR); (2) use of a synthetic polynucleotide corresponding to a partial or complete sequence of the EST as a hybridization probe of a cDNA library, generally having 30 - 50 base pairs; or (3) unique designation of the pure cDNA clone from which the EST was derived (the EST clone) for use as a hybridization probe of a cDNA library. Preferably, EST-derived primer pairs and sequences amplify or detectably hybridize to a sequence from a genomic library.

It has been found that sufficient information is contained in the 150-400 base ESTs from one sequencing run to effect preliminary identification and exact chromosome mapping. Accordingly, the ESTs disclosed herein are generally at least 150 base pairs in length. The length of an EST is determined by the quality of sequencing data and the length of the cloned cDNA. Raw data from the automated sequencers is edited to remove low quality sequence at the end of the sequencing run. High quality sequences (usually a result of sequencing templates without excessive salt contamination) generally give about 400 bp of reliable sequence data; other sequences give fewer bases of reliable data. A 150 bp EST is long enough to be translated into a 50 amino acid peptide sequence. This length is sufficient to observe similarities when they exist in a database search. Furthermore, 150 bp is

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long enough to design PCR primers from each end of the sequence to amplify the complete EST. Sequences shorter than 150 bp are difficult to purify and use following PCR amplification. Furthermore, a 150 bp polynucleotide is likely to give a very strong signal with low background in a screen of a genomic library.

Finally, it is highly unlikely that a sequence of the same 150 bp exists in any genes in the genome besides the one tagged by the EST. Some closely related gene family members have very similar nucleotide sequences, but no examples of pairs of human genes with long segments of identical sequence have been reported to date. For instance, there are three known  $\beta$ -tubulin genes in humans. Several ESTs were found that matched one or another of these tubulin genes, but several new members of this gene family were also found and could be clearly distinguished from the three known members. ESTs that match perfectly to several different genes can be detected by hybridizing to chromosomes: if many chromosomal loci are observed, the sequence (or a close variant) is present in more than one gene. This problem can be circumvented by using the 3'-untranslated part of the cDNA alone as a probe for the chromosomal location or for the full-length cDNA or gene. The 3'-untranslated region is more likely to be unique within gene families, since there is no evolutionary pressure to conserve a coding function of this region of the mRNA.

As demonstrated in the Examples that follow, ESTs can be used to map the expressed sequence to a particular chromosome. In addition, ESTs can be expanded to provide the full coding regions, as detailed below. In this manner, previously unknown genes can be identified.

While a variety of cDNA libraries can be used to obtain ESTs, human brain cDNA libraries are exemplified and represent a preferred embodiment. Suitable cDNA libraries can be freshly prepared or obtained commercially, e.g., as shown in Examples 1, 2, and 11. The cDNA libraries from the

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desired tissue are preferably preprocessed by conventional techniques to reduce repeated sequencing of high and intermediate abundance clones and to maximize the chances of finding rare messages from specific cell populations.

5 Preferably, preprocessing includes the use of defined composition prescreening probes, e.g., cDNA corresponding to mitochondria, abundant sequences, ribosomes, actins, myelin basic polypeptides, or any other known high abundance peptide; these prescreening probes used for preprocessing are

10 generally derived from known ESTs. Other useful preprocessing techniques include subtraction, which preferentially reduces the population of certain sequences in the library (e.g., see A. Swaroop et al., *Nucl. Acids Res.* 19, 1954 (1991)), and normalization, which results in all

15 sequences being represented in approximately equal proportions in the library (Patanjali et al, *Proc. Natl. Acad. Sci. USA* 88:1943 (1991)).

The cDNA libraries used in the present method will ideally use directional cloning methods so that either the 5' end of the cDNA (likely to contain coding sequence) or the 3' end (likely to be a non-coding sequence) can be selectively obtained."

20

Libraries of cDNA can also be generated from recombinant expression of genomic DNA. After they are amplified, ESTs

25 can be obtained and sequenced, e.g., as illustrated in Example 11.

The sequences of the present invention include the specific sequences set forth in the Sequence Listing and designated SEQ ID NO: 1 - SEQ ID NO: 2412. In one aspect of

30 this embodiment, the invention relates to those sequences of SEQ ID NOS: 1 - 2412 that comprise the cDNA coding sequences for polypeptides having less than 95% identity with known amino acid sequences (see Table 2) and more preferably less than 90% or 85% identity. In a second aspect, the invention

35 relates to those sequences of SEQ ID NOS: 1 - 2412 that encode polypeptides having no similarity to known amino acid

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sequences (see Examples that follow). Precisely because they do not contain coding regions and are therefore more unique in their sequence structures, those sequences which meet neither of the preceding criteria can be most useful and are generally preferred for mapping.

Consistent with the NIH mission and its responsibilities to disseminate knowledge and share the tangible fruits of its research, the present inventors have taken a number of steps to facilitate sequence data and clone availability. All EST sequences have been submitted to GenBank (representing an addition equivalent to 7% of the human nucleotides in Release 69 of GenBank, September 1991). The corresponding cDNA clones have been submitted to the American Type Culture Collection and information on clones and sequences has been submitted to the Genome Data Base (Pearson, P. Nucl. Acids Res. 19 (Suppl.): 2237-9 (1991)).

## II. Complete Coding Sequences from ESTs

The ESTs of the present invention generally represent relatively small coding regions or untranslated regions of human genes. Although most of these sequences do not code for a complete gene product, the ESTs of the present invention are highly specific markers for the corresponding complete coding regions. The ESTs are of sufficient length that they will hybridize, under stringent conditions, only with DNA for that gene to which they correspond. Suitably stringent conditions comprise conditions, for example, where at least 95%, preferably at least 97% or 98% identity (base pairing), is required for hybridization. This property permits use of the EST to isolate the entire coding region and even the entire sequence. Therefore, only routine laboratory work is necessary to parlay the unique EST sequence into the corresponding unique complete gene sequence.

Thus, each of the ESTs of the present invention "corresponds" to a particular unique human gene. Knowledge

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of the EST sequence permits routine isolation and sequencing of the complete coding sequence of the corresponding gene. The complete coding sequence is present in a full-length cDNA clone as well as in the gene carried on genomic clones. Therefore, each EST "corresponds" to a cDNA (from which the EST was derived), a complete genomic gene sequence, a polypeptide coding region (which can be obtained either from the cDNA or genomic DNA), and a polypeptide or amino acid sequence encoded by that region.

The first step in determining where an EST is located in the cDNA is to analyze the EST for the presence of coding sequence, e.g., as described in Example 14. The CRM program predicts the extent and orientation of the coding region of a sequence. Based on this information, one can infer the presence of start or stop codons within a sequence and whether the sequence is completely coding or completely non-coding. If start or stop codons are present, then the EST can cover both part of the 5'-untranslated or 3'-untranslated part of the mRNA (respectively) as well as part of the coding sequence. If no coding sequence is present, it is likely that the EST is derived from the 3'-untranslated sequence due to its longer length and the fact that most cDNA library construction methods are biased toward the 3' end of the mRNA.

One general procedure for obtaining complete sequences from ESTs is as follows:

1. Purify selected human DNA from an EST clone (the cDNA clone that was sequenced to give the EST), e.g., by endonuclease digestion using ECOR1, gel electrophoresis, and isolation of the aforementioned clone by removal from low-melting agarose gel.

2. Radiolabel the isolated insert DNA, e.g., with <sup>32</sup>P labels, preferably by nick translation or random primer labeling.

3. Use the labeled EST insert as a probe to screen a lambda phage cDNA library or a plasmid cDNA library.

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4. Identify colonies containing clones related to the probe cDNA and purify them by known purification methods.

5. Nucleotide sequence the ends of the newly purified clones to identify full length sequences.

5       6. Perform complete sequencing of full length clones by Exonuclease III digestion or primer walking. Northern blots of the mRNA from various tissues using at least part of the EST clone as a probe can optionally be performed to check the size of the mRNA against that of the purported full  
10       length cDNA.

      An EST is a specific tag for a messenger RNA molecule. The complete sequence of that messenger RNA, in the form of cDNA, can be determined using the EST as a probe to identify a cDNA clone corresponding to a full-length transcript,  
15       followed by sequencing of that clone. The EST or the full-length cDNA clone can also be used as a probe to identify a genomic clone or clones that contain the complete gene including regulatory and promoter regions, exons, and introns.

20       ESTs are used as probes to identify the cDNA clones from which an EST was derived. ESTs, or portions thereof, can be nick-translated or end-labelled with P<sup>32</sup> using polynucleotide kinase using labelling methods known to those with skill in the art. (**Basic Methods in Molecular Biology**, L.G. Davis, M.D.  
25       Dibner, and J.F. Battey, ed., Elsevier Press, NY, 1986). The lambda library can be directly screened with the labelled ESTs of interest or the library can be converted en masse to pBluescript (Stratagene, La Jolla, California) to facilitate bacterial colony screening. Both methods are well known in  
30       the art. Briefly, filters with bacterial colonies containing the library in pBluescript or bacterial lawns containing lambda plaques are denatured and the DNA is fixed to the filters. The filters are hybridized with the labelled probe using hybridization conditions described by Davis et al. The  
35       ESTs, cloned into lambda or pBluescript, can be used as positive controls to assess background binding and to adjust

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the hybridization and washing stringencies necessary for accurate clone identification. The resulting autoradiograms are compared to duplicate plates of colonies or plaques; each exposed spot corresponds to a positive colony or plaque. The colonies or plaques are selected, expanded and the DNA is isolated from the colonies for further analysis and sequencing.

The ESTs can additionally be used to screen Northern blots of mRNA obtained from various tissues or cell cultures, including the tissue of origin of the EST clone. Northern analysis will most often produce one to several positive bands. The bands can be selected for further study based on the predicted size of the mRNA.

Positive cDNA clones in phage lambda are analyzed to determine the amount of additional sequence they contain using PCR with one primer from the EST and the other primer from the vector. Clones with a larger vector-insert PCR product than the original EST clone are analyzed by restriction digestion and DNA sequencing to determine whether they contain an insert of the same size or similar as the mRNA size on a Northern blot.

Once one or more overlapping cDNA clones are identified, the complete sequence of the clones can be determined. The preferred method is to use exonuclease III digestion (McCombie, W.R, Kirkness, E., Fleming, J.T., Kerlavage, A.R., Iovannisci, D.M., and Martin-Gallardo, R., *Methods*: 3: 33-40, 1991). A series of deletion clones is generated, each of which is sequenced. The resulting overlapping sequences are assembled into a single contiguous sequence of high redundancy (usually three to five overlapping sequences at each nucleotide position), resulting in a highly accurate final sequence.

A similar screening and clone selection approach can be applied to obtaining cosmid or lambda clones from a genomic DNA library that contains the complete gene from which the EST was derived (Kirkness, E.F., Kusiak, J.W., Menninger, J.,

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Gocayne, J.D., Ward, D.C., and Venter, J.C. *Genomics* 10: 985-995 (1991). Although the process is much more laborious, these genomic clones can be sequenced in their entirety also. A shotgun approach is preferred to sequencing clones with  
5 inserts longer than 10 kb (genomic cosmid and lambda clones). In shotgun sequencing, the clone is randomly broken into many small pieces, each of which is partially sequenced. The sequence fragments are then aligned to produce the final contiguous sequence with high redundancy. An intermediate  
10 approach is to sequence just the promoter region and the intron-exon boundaries and to estimate the size of the introns by restriction endonuclease digestion (ibid.).

Using the sequence information provided herein, the polynucleotides of the present invention can be derived from  
15 natural sources or synthesized using known methods. The sequences falling within the scope of the present invention are not limited to the specific sequences described, but include human allelic and species variations thereof and portions thereof of at least 15-18 bases. (Sequences of at  
20 least 15-18 bases can be used, for example, as PCR primers or as DNA probes.) In addition, the invention includes the entire coding sequence associated with the specific polynucleotide sequence of bases described in the Sequence Listing, as well as portions of the entire coding sequence of  
25 at least 15-18 bases and allelic and species variations thereof. Furthermore, to accommodate codon variability, the invention includes sequences coding for the same amino acid sequences as do the specific sequences disclosed herein. Finally, although the error rate in the automated sequencing  
30 used in the present invention is small, there remains some chance of error. Therefore, claims to particular sequences should not be so narrowly construed as to require inclusion of erroneously identified bases or to exclude corrections.

Any specific sequence disclosed herein can be readily  
35 screened for errors by resequencing each EST in both directions (i.e., sequence both strands of cDNA).

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The sequences, constructs, vectors, clones, and other materials comprising the present invention can advantageously be in enriched or isolated form. As used herein, "enriched" means that the concentration of the material is at least about 2, 5, 10, 100, or 1000 times its natural concentration (for example), advantageously 0.01%, by weight, preferably at least about 0.1% by weight. Enriched preparations of about 0.5%, 1%, 5%, 10%, and 20% by weight are also contemplated. Further, removal of clones corresponding to ribosomal RNA and "housekeeping" genes and clones without human cDNA inserts results in a library that is "enriched" in the desired clones.

The term "isolated" requires that the material be removed from its original environment (e.g., the natural environment if it is naturally occurring). For example, a naturally-occurring polynucleotide present in a living animal is not isolated, but the same polynucleotide, separated from some or all of the coexisting materials in the natural system, is isolated.

It is also advantageous that the sequences be in purified form. The term "purified" does not require absolute purity; rather, it is intended as a relative definition. Individual EST clones isolated from a cDNA library have been conventionally purified to electrophoretic homogeneity. The sequences obtained from these clones could not be obtained directly either from the library or from total human DNA. The cDNA clones are not naturally occurring as such, but rather are obtained via manipulation of a partially purified naturally occurring substance (messenger RNA). The conversion of mRNA into a cDNA library involves the creation of a synthetic substance (cDNA) and pure individual cDNA clones can be isolated from the synthetic library by clonal selection. Thus, creating a cDNA library from messenger RNA and subsequently isolating individual clones from that library results in an approximately  $10^6$ -fold purification of the native message. Purification of starting material or

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natural material to at least one order of magnitude, preferably two or three orders, and more preferably four or five orders of magnitude is expressly contemplated.

5 In a cDNA library there are many species of mRNA represented. Each cDNA clone can be interesting in its own right, but must be isolated from the library before further experimentation can be completed. In order to sequence any specific cDNA, it must be removed and separated (i.e. isolated and purified) from all the other sequences. This  
10 can be accomplished by many techniques known to those of skill in the art. These procedures normally involve identification of a bacterial colony containing the cDNA of interest and further amplification of that bacteria. Once a cDNA is separated from the mixed clone library, it can be  
15 used as a template for further procedures such as nucleotide sequencing.

Although claims to large numbers of ESTs and corresponding sequences are presented herein, the invention is not limited to these particular groupings of sequences.  
20 Thus, individual sequences are considered as applicants' discoveries or inventions, as are subgroupings of sequences. All of the functional subgroupings set forth in the tables define groupings for which separate claims are contemplated as being within the scope of this invention. Moreover, in  
25 addition to claims to individual clones, it is intended that the present disclosure also support claims to numerical subgroupings. Thus, subgroupings of 50 ESTs (and corresponding sequences) are contemplated (e.g., SEQ ID NOS 1-50, 51-100, 101-150, etc.) as being within the scope of  
30 this invention, as are subgroupings of 5, 10, 25, 100, 200, and 500 ESTs and corresponding sequences.

### III. DNA Constructs

35 The present invention also includes recombinant constructs comprising one or more of the sequences as broadly described above. The constructs comprise a vector, such as

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a plasmid or viral vector, into which a sequence of the invention has been inserted, in a sense or antisense orientation. In a preferred aspect of this embodiment, the construct further comprises regulatory sequences, including for example, a promoter, operably linked to the sequence. Large numbers of suitable vectors and promoters are known to those of skill in the art, and are commercially available. The following vectors are provided by way of example.

**Bacterial:** pBs, phagescript,  $\phi$ X174, pBluescript SK, pBs KS, pNH8a, pNH16a, pNH18a, pNH46a (Stratagene); pTrc99A, pKK223-3, pKK233-3, pDR540, pRIT5 (Pharmacia).

**Eukaryotic:** pWLneo, pSV2cat, pOG44, pXT1, pSG (Stratagene); pSVK3, pBPV, pMSG, pSVL (Pharmacia).

Promoter regions can be selected from any desired gene using CAT (chloramphenicol transferase) vectors or other vectors with selectable markers. Two appropriate vectors are pKK232-8 and pCM7. Particular named bacterial promoters include lacI, lacZ, T3, T7, gpt, lambda P<sub>R</sub>, and trc. Eukaryotic promoters include CMV immediate early, HSV thymidine kinase, early and late SV40, LTRs from retrovirus, and mouse metallothionein-I. Selection of the appropriate vector and promoter is well within the level of ordinary skill in the art.

In a further embodiment, the present invention relates to host cells containing the above-described construct. The host cell can be a higher eukaryotic cell, such as a mammalian cell, or a lower eukaryotic cell, such as a yeast cell, or the host cell can be a procaryotic cell, such as a bacterial cell. Introduction of the construct into the host cell can be effected by calcium phosphate transfection, DEAE dextran mediated transfection, or electroporation (Davis, L., Dibner, M., Battey, I., **Basic Methods in Molecular Biology**, (1986)).

The constructs in host cells can be used in a conventional manner to produce the gene product coded by the recombinant sequence. Alternatively, the encoded polypeptide

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can be synthetically produced by conventional peptide synthesizers.

Certain ESTs have already been preliminarily categorized by analogy to related sequences in other organisms (see Table 2). Table 10 of Example 10 categorizes particular ESTs broadly as metabolic, regulatory, and structural sequences where known. Constructs comprising genes or coding sequences corresponding to each of these categories are, therefore, specifically and individually contemplated.

Table 11 more particularly separates 127 new ESTs into 13 categories using a different criteria. These are genes related to cell surface; developmental control; energy metabolism; kinase and phosphatase; oncogenes; other metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. Table 11 further identifies the EST by the particular gene product for which it apparently codes. Each of these categories individually comprises a preferred category of EST, and preferred constructs and resulting polypeptide can be prepared from those ESTs or the corresponding complete gene sequence.

#### IV. ESTs and Corresponding Sequences as Reagents

Each of the cDNA sequences identified herein (and the corresponding complete gene sequences) can be used in numerous ways as polynucleotide reagents. The sequences can be used as diagnostic probes for the presence of a specific mRNA in a particular cell type. In addition, these sequences can be used as diagnostic probes suitable for use in genetic linkage analysis (polymorphisms). Further, the sequences can be used as probes for locating gene regions associated with genetic disease, as explained in more detail below.

The EST and complete gene sequences of the present invention are also valuable for chromosome identification.

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Each sequence is specifically targeted to and can hybridize with a particular location on an individual human chromosome. Moreover, there is a current need for identifying particular sites on the chromosome. Few chromosome marking reagents based on actual sequence data (repeat polymorphisms) are presently available for marking chromosomal location. The present invention constitutes a major expansion of available chromosome markers. One hundred ESTs have already been mapped to chromosomes. Using the techniques described in Example 5 or 6, the remaining ESTs and the corresponding complete sequences can similarly be mapped to chromosomes. The mapping of ESTs and cDNAs to chromosomes according to the present invention is an important first step in correlating those sequences with genes associated with disease.

Briefly, sequences can be mapped to chromosomes by preparing PCR primers (preferably 15-25 bp) from the ESTs. Computer analysis of the ESTs is used to rapidly select primers that do not span more than one exon in the genomic DNA, thus complicating the amplification process. These primers are then used for PCR screening of somatic cell hybrids containing individual human chromosomes. Only those hybrids containing the human gene corresponding to the EST will yield an amplified fragment.

PCR mapping of somatic cell hybrids is a rapid procedure for assigning a particular EST to a particular chromosome. Three or more clones can be assigned per day using a single thermal cycler. Using the present invention with the same oligonucleotide primers, sublocalization can be achieved with panels of fragments from specific chromosomes or pools of large genomic clones in an analogous manner. Other mapping strategies that can similarly be used to map an EST to its chromosome include in situ hybridization, prescreening with labeled flow-sorted chromosomes and preselection by hybridization to construct chromosome specific cDNA libraries. Results of mapping ESTs to chromosomal segments are listed in Tables 3 and 4.

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Fluorescence in situ hybridization (FISH) of a cDNA clone to a metaphase chromosomal spread can be used to provide a precise chromosomal location in one step. This technique can be used with cDNA as short as 500 or 600 bases; however, clones larger than 2,000 bp have a higher likelihood of binding to a unique chromosomal location with sufficient signal intensity for simple detection. FISH requires use of the clone from which the EST was derived, and the longer the better. 2,000 bp is good, 4,000 is better, and more than 4,000 is probably not necessary to get good results a reasonable percentage of the time. For a review of this technique, see Verma et al., **Human Chromosomes: a Manual of Basic Techniques**. Pergamon Press, New York (1988).

Reagents for chromosome mapping can be used individually (to mark a single chromosome or a single site on that chromosome) or as panels of reagents (for marking multiple sites and/or multiple chromosomes). Reagents corresponding to noncoding regions of the genes actually are preferred for mapping purposes. Coding sequences are more likely to be conserved within gene families, thus increasing the chance of cross hybridizations during chromosomal mapping (see Tables 8 and 9).

Once a sequence has been mapped to a precise chromosomal location, the physical position of the sequence on the chromosome can be correlated with genetic map data. (Such data are found, for example, in V. McKusick, **Mendelian Inheritance in Man** (available on line through Johns Hopkins University Welch Medical Library).) The relationship between genes and diseases that have been mapped to the same chromosomal region are then identified through linkage analysis (coinheritance of physically adjacent genes).

Next, it is necessary to determine the differences in the cDNA or genomic sequence between affected and unaffected individuals. If a mutation is observed in some or all of the affected individuals but not in any normal individuals, then

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the mutation is likely to be the causative agent of the disease.

With current resolution of physical mapping and genetic mapping techniques, a cDNA precisely localized to a chromosomal region associated with the disease could be one of between 50 and 500 potential causative genes. (This assumes 1 megabase mapping resolution and one gene per 20 kb.)

Comparison of affected and unaffected individuals generally involves first looking for structural alterations in the chromosomes, such as deletions or translocations that are visible from chromosome spreads or detectable using PCR based on that cDNA sequence. Ultimately, complete sequencing of genes from several individuals is required to confirm the presence of a mutation and to distinguish mutations from polymorphisms.

In addition to the foregoing, the sequences of the invention, as broadly described, can be used to control gene expression through triple helix formation or antisense DNA or RNA, both of which methods are based on binding of a polynucleotide sequence to DNA or RNA. Polynucleotides suitable for use in these methods are usually 20 to 40 bases in length and are designed to be complementary to a region of the gene involved in transcription (triple helix - see Lee et al, *Nucl. Acids Res.* 6: 3073 (1979); Cooney et al, *Science* 241: 456 (1988); and Dervan et al, *Science* 251: 1360 (1991)) or to the mRNA itself (antisense - Okano, *J. Neurochem.* 56: 560 (1991); *Oligodeoxynucleotides as Antisense Inhibitors of Gene Expression*, CRC Press, Boca Raton, FL (1988)). Triple helix formation optimally results in a shut-off of RNA transcription from DNA, while antisense RNA hybridization blocks translation of an mRNA molecule into polypeptide. Both techniques have been demonstrated to be efficient in model systems. Information contained in the sequences of the present invention is necessary for the design of an antisense or triple helix oligonucleotide.

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The present invention is also useful tool in gene therapy, which requires isolation of the disease-associated gene in question as a prerequisite to the insertion of a normal gene into an organism to correct a genetic defect. ■  
5 high specificity of the cDNA probes according to this invention have promise of targeting such gene locations in a highly accurate manner.

The sequences of the present invention, as broadly defined, are also useful for identification of individuals  
10 from minute biological samples. The United States military, for example, is considering the use of restriction fragment length polymorphism (RFLP) for identification of its personnel. In this technique, an individual's genomic DNA is digested with one or more restriction enzymes, and probed on  
15 a Southern blot to yield unique bands for identifying personnel. This method does not suffer from the current limitations of "Dog Tags" which can be lost, switched, or stolen, making positive identification difficult. The sequences of the present invention are useful as additional  
20 DNA markers for RFLP.

However, RFLP is a pattern based technique, which does not directly focus on the actual DNA sequence of the individual. The sequences of the present invention can be used to provide an alternative technique that determines the  
25 actual base-by-base DNA sequence of selected portions of an individual's genome. These sequences can be used to prepare PCR primers for amplifying and isolating such selected DNA. One can, for example, take an EST of the invention and prepare two PCR primers from the 5' and 3' ends of the EST.  
30 These are used to amplify an individual's DNA, corresponding to the EST. The amplified DNA is sequenced.

Panels of corresponding DNA sequences from individuals, made this way, can provide unique individual identifications, as each individual will have a unique set of such DNA  
35 sequences, due to allelic differences. The sequences of the present invention can be used to particular advantage to

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obtain such identification sequences from individuals and from tissue, as explained in Examples 12 - 14.

5 The EST sequences from Examples 1 and 2 and the complete sequences from Example 13 uniquely represent portions of the human genome. Allelic variation occurs to some degree in the coding regions of these sequences, and to a greater degree in the noncoding regions. It is estimated that allelic variation between individual humans occurs with a frequency of about once per each 500 bases. Each of the ESTs or  
10 complete coding sequences comprising a part of the present invention can, to some degree, be used as a standard against which DNA from an individual can be compared for identification purposes. Because greater numbers of polymorphisms occur in the noncoding regions, fewer sequences  
15 are necessary to differentiate individuals. The noncoding sequences of Table 9 for example, could comfortably provide positive individual identification with a panel of perhaps 100 to 1,000 primers which each yield a noncoding amplified sequence of 100 bp. If predicted coding sequences, such as  
20 those from Table 6, are used, a more appropriate number of primers for positive individual identification would be 500-2,000.

If a panel of reagents from ESTs or complete sequences of this invention is used to generate a unique ID database  
25 for an individual, those same reagents can later be used to identify tissue from that individual. Positive identification of that individual, living or dead can be made from extremely small tissue samples.

Another use for DNA-based identification techniques is  
30 in forensic biology. PCR technology can be used to amplify DNA sequences taken from very small biological samples such as tissues, e.g., hair or skin, or body fluids, e.g., blood, saliva, semen, etc. In one prior art technique, gene sequences are amplified at specific loci known to contain a  
35 large number of allelic variations, for example the DQ $\alpha$  class II HLA gene (Erlich, H., PCR Technology, Freeman and Co.

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(1992)). Once this specific area of the genome is amplified, it is digested with one or more restriction enzymes to yield an identifying set of bands on a Southern blot probed with DNA corresponding to the DQ $\alpha$  class II HLA gene.

5       The sequences of the present invention can be used to provide polynucleotide reagents specifically targeted to additional loci in the human genome, and can enhance the reliability of DNA-based forensic identifications. Those sequences targeted to noncoding regions (see, e.g., Tables 8  
10       and 9) are particularly appropriate. As mentioned above, actual base sequence information can be used for identification as an accurate alternative to patterns formed by restriction enzyme generated fragments. Reagents for obtaining such sequence information are within the scope of  
15       the present invention. Such reagents can comprise complete ESTs or corresponding coding regions, or fragments of either of at least 15 bp, preferably at least 18 bp.

      There is also a need for reagents capable of identifying the source of a particular tissue. Such need arises, for  
20       example, in forensics when presented with tissue of unknown origin. Appropriate reagents can comprise, for example, DNA probes or primers specific to particular tissue prepared from the ESTs or complete sequences of the present invention. Panels of such reagents can identify tissue by species and/or  
25       by organ type. In a similar fashion, these reagents can be used to screen tissue culture for contamination.

#### V. Production of Polypeptide Corresponding to ESTs

      As previously explained, each EST corresponds not only  
30       to a coding region, but also to a polypeptide. Once the coding sequence is known, or the gene is cloned which encodes the polypeptide, conventional techniques in molecular biology can be used to obtain the polypeptide.

      At the simplest level, the amino acid sequence encoded  
35       by the polynucleotide sequence can be synthesized using commercially available peptide synthesizers. This is

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particularly useful in producing small peptides and fragments of larger polypeptides. (Fragments are useful, for example, in generating antibodies against the native polypeptide.)

Alternatively, the DNA encoding the desired polypeptide  
5 can be inserted into a host organism and expressed. The organism can be a bacterium, yeast, cell line, or multicellular plant or animal. The literature is replete with examples of suitable host organisms and expression techniques. For example, naked polynucleotide (DNA or mRNA)  
10 can be injected directly into muscle tissue of mammals, where it is expressed. This methodology can be used to deliver the polypeptide to the animal, or to generate an immune response against a foreign polypeptide. Wolff, et al., **Science** 247:1465 (1990); Felgner, et al., **Nature** 349:351 (1991).  
15 Alternatively, the coding sequence, together with appropriate regulatory regions (i.e., a construct), can be inserted into a vector, which is then used to transfect a cell. The cell (which may or may not be part of a larger organism) then expresses the polypeptide. (See Example 25.)

20 Antibodies generated against the polypeptide corresponding to a sequence of the present invention can be obtained by direct injection of the naked polypeptide into an animal (as above) or by administering the polypeptide to an animal, preferably a nonhuman. The antibody so obtained will  
25 then bind the polypeptide itself. In this manner, even a sequence encoding only a fragment of the polypeptide can be used to generate antibodies binding the whole native polypeptide. Such antibodies can then be used to isolate the polypeptide from tissue expressing that polypeptide.  
30 Moreover, a panel of such antibodies, specific to a large number of polypeptides, can be used to identify and differentiate such tissue.

#### VI. Examples

35 Certain aspects of the present invention are described in greater detail in the non-limiting Examples that follow.

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## EXAMPLE 1

cDNA Sequences Determined by Random  
Clone Selection: First set

5

## METHODOLOGY:

With reference to the data presented in Table 1, lambda ZAP libraries were converted en masse to pBluescript plasmids, transfected into E. coli XL1-Blue cells, and plated on X-gal/IPTG/ampicillin plates. A total of 1058 clones were picked at random from three human brain cDNA libraries: fetal brain, two-year-old hippocampus, and two-year-old temporal cortex (Stratagene catalog #936206, 936205, 935, respectively. Stratagene, 11099 N. Torrey Pines Rd., La Jolla, CA 92037). An analysis of these clones is summarized in Table I (see below) In addition, clones selected from the hippocampus library were also analyzed after subtractive hybridization with the fibroblast library. These results are listed in the "Hippocampus Subtracted" column of Table 1.

20 Templates for DNA sequencing were PCR products or plasmids prepared by the alkaline lysis method. About half of the templates prepared by PCR failed to yield an amplified fragment suitable for sequencing. This was primarily due to use of PCR conditions that minimized the need for further purification of the product but also selected against amplification of long inserts (5  $\mu$ l fresh or frozen overnight culture of E. coli carrying the pBluescript plasmid, 7.5  $\mu$ M each dNTP, and 0.1  $\mu$ M each primer for 35 cycles: 94°C, 40 sec; 55°C, 40 sec; 72°C, 90 sec). A further percentage of the PCR-generated templates failed to sequence, largely due to primer-dimer or other amplification artifacts. Qiagen™ columns improved the percentage of plasmid templates, increasing the yields of usable sequence from about 60% with a standard alkaline lysis protocol to over 90%. Overall, 117 PCR-generated templates and 497 plasmid templates resulted in usable sequence. Dideoxy chain termination sequencing reactions were performed with fluorescent dye-labeled M13

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universal or reverse primers. After a cycle sequencing protocol, carried out in a Perkin-Elmer thermal cycler, sequencing reactions were run on an Applied Biosystems, Inc. (Foster City, CA) 373A automated DNA sequencer. (Cycle sequencing was performed in a Perkin Elmer Thermal Cycler for 15 cycles of 95°C, 30 sec; 60°C, 1 sec; 70°C, 60 sec and 15 cycles of 95°C, 30 sec; 70°C, 60 sec with the Applied Biosystems, Inc. Taq Dye Primer Cycle Sequencing Core Kit protocol). Some sequencing reactions were performed on an ABI robotic workstation (Cathcart, *Nature* 347: 310 (1990) hereby incorporated by reference).

**RESULTS:**

Singe-run DNA sequence data were obtained from 609 randomly chosen cDNA clones. The number of clones sequenced from each library is summarized in Table 1. Double-stranded cDNA clones in the pBluescript vector were sequenced by a cycle sequencing protocol with dye-labeled primers and Applied Biosystems, Inc. 373A DNA Sequences. The average length of usable sequence was 397 bases with a standard deviation of 99 bases.

Subtractive hybridization has been used successfully to reduce the population of highly represented sequences in a cDNA library by selectively removing sequences shared by another library. (Schmid and Girou, *Neurochem.* 48: 307 (1987); Fargnoli et al, *Anal. Biochem.* 187: 364 (1990); Duguid and Dinauer, *Nucl. Acids. Res.* 18: 2789 (1990); Schweinfest, et al, *Genet. Anal. Techn. Appl.* 7: 64 (1990); Travis and Sutcliffe, *Proc. Natl. Acad. Sci. USA* 85: 1696 (1988); Kato, *Eur. J. Neurosci.* 2: 704 (1990)). Subtractive hybridization was therefore tested as a way of enhancing the number of brain-specific clones in the hippocampus library by hybridizing the hippocampus library with a WI38 human lung fibroblast cell line cDNA library and removing the common sequences (Schweinfest et al, *Genet. Anal. Techn. Appl.* 7: 64 (1990); Sive and St. John, *Nucl. Acids Res.* 16: 10937

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(1988)). Clones from this subtraction are listed in the column "Hippocampus Subtracted" in Table 1.

The EST sequences from this Example 1 are identified as SEQ ID NOS 1-315.

TABLE 1. cDNA Library Composition Determined  
By Random Clone Sequencing

EST Category	Hippocampus		Hippocampus Subtracted		Fetal Brain		Temporal Cortex	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Databases Match--Human	48	12.8	10	8.6	3	7.9	6	7.5
Mitochondrial Genes	39	10.4	14	12.2	6	15.8	0	0
Repeats: Alu, LINE-1, etc.	10	2.7	7	6.0	0	0	11	13.8
Ribosomal RNA	32	8.6	7	6.0	4	10.5	0	0
Other Nuclear Genes	32	8.6	7	6.0	5	13.2	4	5.0
No Database Match--Other	160	42.8	44	37.9	20	52.6	6	7.5
Poly A Insert	53	14.1	24	20.7	0	0	27	33.7
No Insert	1	0.3	3	2.6	0	0	26	32.5

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## EXAMPLE 2

Sequencing of Additional ESTs: Second set

Over 2600 additional cDNA clones have been isolated, partially sequenced and screened. The clones were isolated from four human brain cDNA libraries. The new sequences thus discovered, together with the 315 brain ESTs from Example 1, correspond to over 2400 new human genes. These data represent an approximate doubling of the number of human genes identified by DNA sequencing.

Specifically, four cDNA libraries were used as sources of clones for sequencing. Human hippocampus and fetal brain libraries, plasmid template preparation, sequencing reactions, and automated sequencing were performed as described (Adams, M.D., Kelley, J.M., Gocayne, J.D., Dubnick, M., Polymeropoulos, M.H., Xiao, H., Merril, C.R., Wu, A., Olde, B., Moreno, R.F., Kerlavage, A.R., McCombie, W.R., & Venter, J.C. *Science*, 252: 1651-56 (1991)). A pooled probe consisting of inserts from 10 different EST clones with sequences that matched either mitochondrial genes or the 18S or 28S ribosomal RNAs was used to prescreen a gridded filter array of the hippocampus library; nonhybridizing clones are referred to as the "prescreened library". Another fetal brain library was constructed by and was a gift from Bento Soares (Columbia University). A directionally-cloned library was prepared using the method of Rubenstein, et al. (Rubenstein, J., Elizabeth, A., Brice, A., Ciaranello, R., Denney, D., Porteus, M. & Usdin, T. *Nucl. Acids Res.* 18: 4833-4842) using human adult brain mRNA purchased from Clontech (Palo Alto, CA; Catalogue # 6516-1). Of 482 clones analyzed by restriction enzyme digestion, 33% contained inserts at least 1500 base pairs in length. Stratagene hippocampus and fetal brain library totals include data from Adams et al *Science* 252: 1651.

Sequences of nuclear-encoded cDNAs that did not include interspersed repeats (Schmid, C. W. & Jelinek, W. R. *Science*

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216: 1065-1070 (1982); Paulson, K. E., Deka, N., Schmid, C. W., Misra, R., Schlinder, C. W., Rush, M. G., Kadyk, L., & Leinwand, L. *Nature* 316: 359-361 (1985); Fanning, T. G. & Singer, M. F. *Biochem. Biophys. Acta* 910: 203-212 (1987))

5 were searched against all of GenBank and, in 6-frame translation, against a comprehensive, non-redundant peptide database using the network BLAST (Altschul, S. F., Gish, W., Miller, W., Myers, E.W., & Lipman, D. J. *Mol. Biol.* 215: 403-410 (1990)) server at the National Center for

10 Biotechnology Information. BLAST output was parsed, and an interactive alignment editor was used to select which matches, if any, from each search to record in a relational EST database, which was developed to track sequencing, identification, tissue localization, physical mapping, and

15 the public distribution of the clones, mapping and sequence data. For significant similarities, a putative gene name and Protein Identification Resource (PIR) gene family identification (Barker, W., George, D., Hunt, L., & Garavelli, J. *Nucl. Acids Res.* 19 (Suppl): 2231-2236 (1991))

20 for the EST were assigned. ESTs without significant matches using BLAST were searched in translation against PIR using FASTA. Ten additional marginal matches were found. A total of 2300 new EST sequences comprising 765,505 nucleotides from the current data set have been submitted to GenBank and

25 assigned accession numbers M77851-M79278 and M85308-M86179. All ESTs except those multiply representing actin, tubulin, and myelin basic protein clones were submitted. ATCC accession numbers of cDNA clones from which ESTs were derived are 77501-78999 and 81000-81756. The Genome Data Base

30 expressed D-segment numbers for these clones are D0S1E - D0S2422E. The ESTs from this Example are identified herein as SEQ ID NOS 316-2407.

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## EXAMPLE 3

EST Characterization: First Set

ESTs including SEQ ID NOs 1-315 were analyzed as follows. Initially, the EST sequences were examined for similarities in the GenBank nucleic acid database (GenBank Release 65.0), Protein Information Resource Release 26.0 (PIR), and ProSite (MacPattern from the EMBL data library, Fuchs R. *Comput. Appl. Biosci.* 7: 105 (1990) Release 5.0 were used). BLAST was used to search Genbank and the PIR (both maintained by the National Center for Biotechnology Information) ESTs without exact GenBank matches were translated in all six reading frames and each translation was compared with the protein sequence database PIR and the ProSite protein motif database. Comparisons with the ProSite motif database were done by means of the program MacPattern from the EMBL Data Library. GenBank and PIR searches were conducted with the "basic local alignment search tool" programs for nucleotide (BLASTN) and peptide (BLASTX) comparisons (Altschul et al, *J. Mol. Biol.* 215: 403 (1990)). PIR searches were run on the National Center for Biotechnology Information BLAST network service. The BLAST programs contain a very rapid database-searching algorithm that searches for local areas of similarity between two sequences and then extends the alignments on the basis of defined match and mismatch criteria. The algorithm does not consider the potential gaps to improve the alignment, thus sacrificing some sensitivity for a 6-80 fold increase in speed over other database-searching programs such as FASTA (Pegarson and Lipman, *Proc. Natl. Acad. Sci. USA*, 85: 2444 (1988)).

Sequence similarities identified by the BLAST programs were considered statistically significant with a Poisson P-value than 0.01. The Poisson P-value less than the probability of as high a score occurring by chance given the number of residues in the query sequence and the database.

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After the BLASTN search, 30 unmatched ESTs were compared against GenBank by FASTA to determine if significant matches were missed due to the use of BLASTN for the database search. No additional statistically significant matches were found. Statistical significance does not necessarily mean functional similarity; some of the reported matches may indicate the presence of a conserved domain or motif or simply a common protein structure pattern. Those ESTs identified as fully corresponding to known human genes or proteins are not included in this disclosure. Statistically significant matches are reported in Table 2, together with the length and percent identity or similarity of each alignment.

On the basis of database searches, 609 EST sequences were classified into eight groups as shown in Table 1 (see Example 1 above). Four groups, with 197 or 32% of the sequences, consist of matches to human sequences: repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes. Forty-eight (8%) of the sequences matched non-human entries in GenBank or PIR while 230 (38%) had no significant matches. The remaining 134 (22%) sequences contained no insert or consisted entirely of polyA between the EcoRI cloning sites.

Thirty-six ESTs matched previously sequenced human nuclear genes with more than 97% identity. Four of these ESTs are from genes encoding enzymes involved in maintaining metabolic energy, including ADP/ATP translocase, aldolase C, hexokinase, and phosphoglycerate kinase. Human homologs of genes for the bovine mitochondrial ATP synthase  $F_0\beta$ -subunit and porcine aconitase were also found (Table 2). Brain-specific cDNAs included synaptophysin, glial fibrillary acidic protein (GFAP), and neurofilament light chain. At least six ESTs are from genes encoding proteins involved in signal transduction: 2',3'-cyclic nucleotide 3'-phosphodiesterase (2 ESTs), calmodulin, c-erbA- $\alpha$ -2,  $G_s\alpha$ , and  $Na^+/K^+$  ATPase  $\alpha$ -subunit. Other ESTs were matches to genes for ubiquitous structural proteins -- actins, tubulins, and

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fodrin (non-erythroid spectrin). ESTs also document the presence in the hippocampus cDNA library of the ret proto-oncogene, the ras-related gene rhoB, and one of the chromosome 22 breakpoint cluster region transcripts. Eight  
5 ESTs are from genes known to be associated with genetic disorders (Online Mendelian Inheritance in Man). More than half of the human-matched ESTs from Example 1 have been mapped to chromosomes, indicating the bias of GenBank entries toward well-studied genes and proteins.

10 ESTs without significant GenBank matches were also compared to the ProSite database of recognized protein motifs. Not counting post-translational-modification signatures, fifty-four sequences contained motifs from the database. Some patterns, particularly the "leucine zipper",  
15 are found in scores or hundreds of proteins that do not share the functional property implied by the presence of the motif.

Similarities to sequences from other organisms were also detected in the BLAST searches of GenBank and PIR (Table 2). Several ESTs displayed similarity to "housekeeping" genes,  
20 including the ribosomal proteins S10 and L30 (rat) and the above glycolytic enzymes. EST00257 (SEQ ID NO:77) shows strong nucleotide sequence similarity to the squid (67%) and Drosophila (70.4%) kinesin heavy chain. Kinesin was first described as a microtubule-associated motor protein involved  
25 in organelle transport in the squid giant axon (Vale et al, Cell 42: 39 (1985)). Six oncogene-related sequences were also among the cDNA clones sequenced. EST00299 (SEQ ID NO:180) and EST00283 (SEQ ID NO:271) show similarity to several ras-related genes and EST00248 (SEQ ID NO:102)  
30 matched the 3' untranslated region of the bovine substrate of botulinum toxin ADP-ribosyltransferase. Similarities with an S. cerevisiae RNA polymerase subunit and Torpedo electromotor neuron-associated protein were also observed. Two ESTs may represent new members of known human gene families: EST00270  
35 matched the three  $\beta$ -tubulin genes with 88-91% identity and

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EST00271 (SEQ ID NO:248) matched  $\alpha$ -actinin with 85% identity at the nucleotide level.

Among the most interesting of the primary sequence relationships was the similarity of ESTs to the *Drosophila* genes Notch and Enhancer of split. Nucleotide and peptide alignments of EST00256 (SEQ ID NO:188) and EST00259 (SEQ ID NO:227) with the *Drosophila* genes have been demonstrated. Both genes are part of a signal cascade encoded by the "neurogenic" genes that are involved in the differentiation of neuronal and epidermal cell lineages in the neuroectoderm of the developing *Drosophila* embryo (Campos-Ortega, *Trends in Neuro. Sci.* 11: 400 (1988)). It has been proposed that the Enhancer of split protein interacts with a membrane protein that is the product of the Notch gene to convert a developmental signal into an altered pattern of gene expression (id. *J. Mol. Biol.* 215: 403 (1990)). EST00256 (SEQ ID NO:188) matches near the 5' end of the Enhancer of split coding sequence, away from the mammalian G protein  $\beta$  subunit- and yeast cdc4-like elements (Hartley et al, *Cell* 55: 785 (1988); Klambt et al. *EMBO J.* 8: 203 (1989)). Part of the EST00259 (SEQ ID NO:227) match to Notch in the cdc10/SW16 region that is similar to three cell-cycle control genes in yeast and is tightly conserved in the *Xenopus* Notch homolog, Xotch. In *Drosophila*, Enhancer of split is absolutely required for formation of epidermal tissue. Notch contains several epidermal growth factor-like repeats and appears to play a general role in cell-cell communication during development (Banerjee and Zipursky, *Neuron* 4:177 (1990)).

Seven genes were represented by more than one EST. Comparisons of all the ESTs against one another revealed two overlaps of unknown ESTs: EST00233 (SEQ ID NO:32) and EST00234 (SEQ ID NO:8) match in opposite orientations and EST00235 (SEQ ID NO:204) and EST00236 (SEQ ID NO:148) match in the same orientation beginning at the same nucleotide. Five human genes were represented by more than one EST:  $\beta$ -

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actin (3),  $\lambda$ -actin (2),  $\alpha$ -tubulin (2),  $\alpha$ -2-macroglobulin (2), and 2'3'-cyclic-nucleotide-3'-phosphodiesterase (2). Those few instances where two or more ESTs represent different portions of a single cDNA can be readily ascertained when the sequence of the full cDNA insert is determined in accordance with Example 13.

#### Example 4

##### EST Sequences Characterization: Second Set

The ESTs of Example 2, including SEQ ID NOs 316-2407, were screened against known sequences listed in GenBank and other databases, as in Example 3. The results are reported in Table 2. The quality of the match is given as percent identity and length in base pairs for nucleotide matches and amino acid residues for peptide matches. In many cases ESTs match multiple domains on several related proteins; for example, EST00825 matches two transmembrane domains on both GABA and Norepinephrine transporters. Nucleotide databases are: GenBank (GB), and EMBL (E); peptide databases are: GenPept (GPU), Swiss-Prot (SP), and PIR.

The great majority (83%) of the partial cDNA sequences reported in Example 2 are unrelated to any sequences previously described in the literature. Based on database matches to known genes from humans as well as from such evolutionarily distant organisms as *E. coli*, yeast, *C. elegans*, *Drosophila*, barley, *Arabidopsis*, rice, and green algae, we have preliminarily identified the functional type of a number of the ESTs (Table 2). These include a novel gene similar to Notch/Tan-1 (Adams et al., *supra*), a new neurotransmitter transporter gene, and a new member of the multi-drug resistance gene family. Several genes involved in development or cell differentiation in *Drosophila* are represented by similar human ESTs, including seven in *absentia* (Carthew, R. & Rubin, G. Cell 63: 561-577 (1990)),

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big-brain (bib) (Rao, Y., Jan, L., & Jan, Y. **Nature** 345: 163-167 (1990)), the discs tumor suppressor (Woods, D. & Bryant, P. **Cell** 66: 1-20 (1991)), and the homeotic gene orthodenticle (Finkelstein, R., Smouse, D. Capaci, T., Spradling, A. & Perrimon, N. **Genes. Dev.** 4: 1516-1527 (1990)). New members of gene families previously known in humans include a  $\text{Ca}^{+2}$ -transporting ATPase, an ADP ribosylation factor, and a new neural-cell adhesion molecule gene.

The 1971 ESTs without a putative identification were analyzed using the coding-region prediction program CRM via the GRAIL server (Uberbacher, E. & Mural, R. **Proc. Natl. Acad. Sci. USA** 88: 11261-5 (1991)). Fifteen percent of the unknown ESTs scored an excellent probability of containing protein-coding sequence. Fifty percent of the ESTs to known human genes contain protein-coding sequences, therefore, at most half of the unknown ESTs are likely to contain coding sequences. We have found no evidence that genomic DNA or cDNA to unspliced precursor RNA is a major contaminant of either the hippocampus or fetal brain library.

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Table 2: ESTs Identified by Database Matches

SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID
208	EST00250	60K filarial antigen	A28209	PIR	108	56.9
2320	EST01784	60K filarial antigen	A28209	PIR	88	50.6
969	EST01982	ADP-ribosylation factor 1	B33283	PIR	84	41.2
1834	EST01620	AMP deaminase, brain	A37056	PIR	57	100.0
97	EST00289	Aconitase	A35544	PIR	105	90.6
251	EST00370	Actin, other	S10021	PIR	44	51.1
248	EST00271	Actinin, alpha	HUMACTAR	GB	271	85.3
891	EST01891	Actinin, alpha	HUMACTAR	GB	315	81.6
1500	EST02538	Actinin, alpha	HUMACTAR	GB	271	75.0
132	EST00110	Agrin	RATAGR	GB	269	82.2
1852	EST01625	Agrin	RATAGR	GB	103	84.6
1094	EST02113	Ala	HUMALA	GB	92	82.8
691	EST00675	Alcohol dehydrogenase	RICGOS2G_1	GPU	38	59.0
2408	EST00244	Amyloid A4	HUMAFPA4	GB	135	91.9
1965	EST01664	Amyloid A4	A29030	PIR	52	54.7
2068	EST01694	Amyloid A4	QRHUA4	PIR	83	69.0
2092	EST01700	Anion exchanger homolog AE3	A33638	PIR	95	97.9
1880	EST01634	Axonal glycoprotein TAG-1	A34695	PIR	69	87.1
1492	EST02530	B cell-specific Mo-MLV integration site 1 (bmi-1)	MUSBM1A	GB	111	87.5
1277	EST02306	Bib protein	S09699	PIR	57	53.4
13	EST00255	Cadherins	CADN\$HUMAN	SP	41	45.2
1348	EST02378	cAMP-dependent protein kinase inhibitor	MUSPKI	GB	234	91.5
1931	EST01041	cAMP-regulated phosphoprotein	B35308	PIR	21	86.4
1413	EST02447	cAMP-specific phosphodiesterase	HUMPDEAA	GB	363	69.0
396	EST01443	CDPdiacylglycerol-serine O-phosphatidyltransferase	JH0368	PIR	33	41.2
1956	EST01663	Ca2+-transporting ATPase 2	B28065	PIR	125	88.9
1126	EST02146	Calbindin D28	RATCALBD28	GB	81	87.8
1039	EST02055	Calcium channel	S05054	PIR	33	67.6
1910	EST01645	Calmodulin	RATRCM1	GB	120	90.1
485	EST01466	Calmodulin-dependent protein kinase, type II, beta	A26464	PIR	93	98.9
913	EST01913	Clathrin coat assembly protein AP50 homolog	YSCYAP54_1	GPU	62	63.5
2004	EST01676	Cofilin	PIGCOFIL	GB	132	89.5
2400	EST01824	Cysteine-rich intestinal protein	GYRTI	PIR	56	66.7
1588	EST02633	D2223 repetitive DNA	HUMREP	GB	160	76.4
2192	EST01257	Diacylglycerol kinase, lymphocyte	S09156	PIR	44	42.2
1441	EST02477	Diamine acetyltransferase	ATDA\$HUMAN	SP	74	45.3
650	EST00642	Dilute (myosin heavy chain)	MUSDILUTE_1	GPU	27	100.0
2302	EST01779	Discs-large tumor suppressor	DRODLGA_1	GPU	53	63.0
188	EST00256	Enhancer of split	A30047	PIR	86	58.6
2289	EST01325	Fatty acid synthase	RATFAS	GB	98	79.8
310	EST00377	Fo ATPase beta subunit, mitochondrial	BOVMTASB	GB	293	85.4
1332	EST02362	GA binding protein, beta subunit	MUSGAC_1	GPU	86	90.8
1667	EST00825	Gamma-aminobutyric acid transporter	A35918	PIR	26	59.3
2217	EST01738	Gelation factor ABP-280	A37098	PIR	74	80.0
1412	EST02446	Glutamate-aspartate carrier protein	JV0092	PIR	57	37.9
1020	EST02034	Glutaminase	GLS\$RAT	SP	34	74.3
1885	EST01639	Histocompatibility antigen modifier 1	A37779	PIR	63	75.0
1495	EST02533	Hypothetical 43.5K protein	JU0319	PIR	43	52.3
2326	EST01791	Inositol-1,4,5-trisphosphate 3-kinase	JN0129	PIR	65	68.2
SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID

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724	EST01529	Interferon-induced 54K protein	INI4\$HUMAN	SP	76	70.1
1035	EST02051	J1 protein	MUSJ1PRO	GB	362	85.7
1229	EST02258	KUP protein	HUMKUPMR_1	GPU	54	36.4
993	EST02007	Kinase 5 protein	CHKCEK5_1	GPU	68	94.2
77	EST00257	Kinesin	A35075	PIR	57	86.2
78	EST00258	Kinesin	A35075	PIR	62	47.6
2245	EST01748	Kinesin	A35075	PIR	98	52.5
2282	EST01764	Lamin B receptor	A36427	PIR	76	71.4
2173	EST01724	Lon protease	JO0901	PIR	103	41.3
1427	EST02463	Long-chain-fatty-acid-CoA ligase	A36275	PIR	36	62.2
313	EST00276	Lysosomal membrane glycoprotein 1 (LAMP-1)	A31959	PIR	53	46.3
161	EST00247	MARCKS (myristoylated alanine-rich protein kinase	BOVMARCKS	GB	139	83.6
1386	EST02418	MARCKS homolog	MMF52	EU	237	92.4
769	EST00734	MARCKS homolog	S08341	PIR	61	40.3
43	EST00371	Maternal G10 protein	S05955	PIR	38	92.3
1468	EST02505	Matrin 3	RATMATRIN3	GB	137	93.5
639	EST00632	Membrane transport superfamily (GTP-dependent)	A24400	PIR	63	39.1
1894	EST01643	Membrane transport superfamily (GTP-dependent)	A24400	PIR	71	50.0
824	EST01865	Microtubule-associated protein 1B	RATNEU	GB	293	86.4
223	EST00368	Microtubule-associated protein 1B	A33645	PIR	30	54.8
2032	EST01683	Microtubule-associated protein 1B	A33645	PIR	49	62.0
2017	EST01678	Milk fat globule membrane protein	A36479	PIR	48	61.2
1704	EST01580	Myeloid differentiation primary response gene MyD1	MUSMYO118_1	GPU	76	88.3
2226	EST01744	NAD(P)+ transhydrogenase (B-specific)	DEBOXM	PIR	86	93.1
1567	EST02610	Neural cell adhesion molecule L1	S05479	PIR	82	43.4
506	EST01471	Neuraxin	S06017	PIR	120	84.3
1566	EST02609	Neutrophil oxidase factor	A34855	PIR	43	47.7
952	EST01961	Notch/Xotch	HUMTAN1_1	GPU	85	57.0
227	EST00259	Notch/Xotch	A35844	PIR	74	85.3
1395	EST02429	Nuclear factor 1-like protein (NF1)	HAMNF1A	GB	111	92.0
1681	EST01573	Nucleoside diphosphate kinase	A33386	PIR	71	52.8
346	EST01828	Otd homeotic protein	A35912	PIR	35	52.8
2254	EST01751	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase	A28807	PIR	40	90.2
1869	EST00992	Polymyxin B resistance	A32714	PIR	20	76.2
93	EST00287	Processing enhancing protein	S03968	PIR	96	58.8
2353	EST01806	Prohibitin	RATPROHIB_1	GPU	120	97.5
2297	EST01775	Prohormone cleavage enzyme	MUSMPC1A_1	GPU	91	93.5
9	EST00376	Prolyl endopeptidase	PIGPREP	GB	223	83.9
1069	EST02087	Protein kinase C, zeta	HUMPKCL	GB	382	58.7
1933	EST01650	Protein phosphatase 2A beta subunit	HUMPROP2AB	GB	288	76.8
202	EST00298	Protein-tyrosine phosphatase LRP	LRP\$MOUSE	SP	62	44.4
1654	EST01572	Protochlorophyllide reductase	S04783	PIR	34	57.1
38	EST00374	RNA polymerase II 6th subunit (RPO26)	A36352	PIR	72	75.3
1478	EST02515	Rab5	F34323	PIR	91	82.6
2368	EST01389	Radial spoke protein 3	S05962	PIR	58	52.5
37	EST00038	ras p21-like small GTP-binding protein (smg GDS)	BOVSMGGOS	GB	131	89.4
180	EST00299	ras-related proteins	S10493	PIR	51	46.1
1700	EST01579	Retrovirus-related gag polyprotein	FOHUE2	PIR	95	77.1
1511	EST02550	Retrovirus-related pol polyprotein	GNLJGL	PIR	50	54.9
102	EST00248	rho H12/ ARH12	BOVBGBRH	GB	195	79.6
1715	EST01583	Ribosomal protein L18a	R5RT18	PIR	68	95.7
SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID

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1856	EST01627	Ribosomal protein L1a	A24579	PIR	75	63.1
1974	EST01667	Ribosomal protein L3	JQ0771	PIR	74	80.0
301	EST00300	Ribosomal protein L30	R6RT30	PIR	57	96.5
22	EST00301	Ribosomal protein S10	R3RT10	PIR	66	97.0
2402	EST01826	Ribosomal protein S10	R3YM10	PIR	36	51.4
463	EST01459	Ribosomal protein YL10	S11581	PIR	40	68.3
1408	EST02442	Seven in absentia	A36195	PIR	46	80.8
299	EST00249	smg p25A GDP dissociation inhibitor	A35652	PIR	97	77.5
951	EST01960	Spectrin, beta	HUMSPTB	GB	268	67.7
2089	EST01699	Sperm membrane protein	A35981	PIR	52	58.5
2073	EST01697	Succinate dehydrogenase flavoprotein	BOVSDHFP1_1	GPU	44	100.0
2138	EST01715	Succinate dehydrogenase flavoprotein	BOVSDHFP1_1	GPU	49	92.0
430	EST00472	Synaptotagmin (p65)	SY65\$HUMAN	SP	27	53.6
1371	EST02402	Talin	MUSTALINR.1	GPU	79	81.2
1771	EST01601	Thiosulfate sulfurtransferase (rhodanese)	ROBO	PIR	65	81.8
300	EST00232	Transforming protein (dbl)	TVHUBD	PIR	25	65.4
189	EST00282	trkB	A35104	PIR	33	67.6
653	EST01512	Tubulin, alpha	HUMTUBAG	GB	223	75.0
594	EST01490	Tubulin, beta	HUMTBB5	GB	298	93.6
757	EST01542	Tubulin, beta	HUMTUBBM	GB	217	90.4
1245	EST02274	Tubulin, beta	A26561	PIR	105	88.7
1147	EST02169	Tyrosine kinase	HUMECK	GB	384	74.3
1701	EST00853	Unc-104	JN0114	NR	36	45.0
2121	EST01711	Valine-tRNA ligase	A29871	PIR	56	57.9
187	EST00152	Wilm's tumor-related protein	HUMQM	GB	228	99.6
1726	EST01588	XPR2 alkaline extracellular protease	B26955	PIR	88	46.1
249	EST00275	Zinc Finger Proteins	S06551	PIR	25	57.7
413	EST01446	Zinc Finger Proteins	S00754	PIR	45	60.9
469	EST01460	Zinc Finger Proteins	C32891	PIR	34	54.3
833	EST01560	Zinc Finger Proteins	S00754	PIR	105	67.0
1230	EST02259	Zinc finger proteins	S00754	PIR	71	62.5
1496	EST02534	Zinc finger proteins	A34612	PIR	50	45.1
2324	EST01352	Zinc Finger Proteins	S10397	PIR	29	56.7

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There is little redundancy in EST sequencing according to the present invention. Of the nuclear-encoded messenger RNAs, the most common ESTs were to the  $\beta$ -actin (0.6% of the EST clones) and myelin basic protein genes (MBP, 0.5% of the clones). MBP, a highly expressed structural component of nerve tissue (Kamholtz, J., de Ferra, F., Puckett, C., & Lazzarini, R. *Proc. Natl. Acad. Sci., USA* 83: 4962-4966 (1986)), displays four alternate splicing forms, of which at least two are present among the ESTs reported here. Other common ESTs were Gs-alpha gamma-actin and both a- and alpha-tubulin.

By matching ESTs to known database sequences, a phenotypic characterization of the tissue begins to emerge. Protein superfamilies matched by ESTs were grouped into three broad functional categories to assess the biological spectrum represented by these randomly selected cDNA clones. Structural and metabolic classes comprised about 30% of the ESTs with database matches. Twenty-five percent were involved in regulatory pathways and the remainder were not classifiable. Eleven of the eighteen enzymes of glycolysis and the citric acid cycle are represented by at least one subunit or isozyme. In addition, several genes not previously known to be expressed in the brain were matched, including spermine/spermidine acetyltransferase (Casero, R., Celano, P., Ervin, S., Applegren, N., Wiest, L. & Pegg, A. *J. Biol. Chem.* 266: 810-814 (1991)) and osteopontin (Young, M., Kerr, J., Termine, J., Wewer, U., Wang, M., McBride, W. & Fisher, L. *Genomics* 7:491-502 (1990)).

#### EXAMPLE 5

##### Mapping of ESTs to Human Chromosomes

Randomly selected ESTs corresponding to SEQ ID NOs. were assigned to chromosomes via PCR (see Table 3). Oligonucleotide primer pairs were designed from EST

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sequences to minimize the chance of amplifying through an intron. The oligonucleotides were 18-23 bp in length and designed for PCR amplification using the computer program INTRON (National Institutes of Mental Health, Bethesda, MD). The program is based on the assumptions that: 1) introns are genomic sequences that interrupt the coding and noncoding sequences of genes (Smith, J. Mol. Evol. 27:45-55 (1988)); 2) there are consensus sequences for splice junctions (Shapiro, et al., Nucl. Acids Res. 15:7155-7174 (1987)); and 3) that 90% of the human genes studied have 3' untranslated regions of mRNA not interrupted by introns in the genomic DNA (Hawkins, Nucl. Acids Res. 16:9893-9908 (1988)).

The program evaluates the likelihood that a given GG or CC dinucleotide represents a former exon-intron boundary. Specifically, every input strand is processed by the INTRON program twice, first evaluating the sense mRNA strand, and then processing the complementary or anti-sense strand. The program evaluates each sequence by finding all GG or CC pairs (possible former splice sites), searching for STOP codons in all three reading frames, and analyzing the GG or CC pairs surrounded by stop codons. All regions of the EST that are unlikely to contain splice junctions based on CC content, GG content, and stop codon frequency are then marked by the program in uppercase.

The creation of PCR primers from known sequences is well known to those with skill in the art. For a review of PCR technology see Erlich, H.A., PCR Technology; Principles and Applications for DNA Amplification, 1992. W.H. Freeman and Co., New York. ESTs were examined for the presence of stop codons in each reading frame and for consensus splice junctions. The presence of stop codons and absence of splice junction sequences are more characteristic of 3' untranslated sequences than of introns. The untranslated sequences are unique to a given gene; thus, primers from

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these regions are less likely to prime other members of a gene family or pseudogenes.

The primers were used in polymerase chain reactions (PCR) to amplify templates from total human genomic DNA. PCR conditions were as follows: 60 ng of genomic DNA was used as a template for PCR with 80 ng of each oligonucleotide primer, 0.6 unit of Tag polymerase, and 1 uCi of a <sup>32</sup>P-labeled deoxycytidine triphosphate. The PCR was performed in a microplate thermocycler (Techne) under the following conditions: 30 cycles of 94°C, 1.4 min; 55°C, 2 min; and 72°C, 2 min; with a final extension at 72°C for 10 min. The amplified products were analyzed on a 6% polyacrylamide sequencing gel and visualized by autoradiography. If the size of the resulting product was equivalent to the EST from which the primers are derived, then the PCR reaction was repeated with DNA templates from two panels of human-rodent somatic cell hybrids; BIOS PCRable DNA (BIOS Corporation) and NIGMS Human-Rodent Somatic Cell Hybrid Mapping Panel Number 1 (NIGMS, Camden, NJ).

PCR was used to screen a series of somatic cell hybrid cell lines containing defined sets of human chromosomes for the presence of a given EST. DNA was isolated from the somatic hybrids and used as starting templates for PCR reactions using the primer pairs from EST sequences selected above. Only those somatic cell hybrids with chromosomes containing the human gene corresponding to the EST will yield an amplified fragment. ESTs were assigned to a chromosome by analysis of the segregation pattern of PCR products from hybrid DNA templates. For a review of techniques and analysis of results from somatic cell gene mapping experiments. (See Ledbetter et al., *Genomics* 6:475-481 (1990).) The single human chromosome present in all cell hybrids that give rise to an amplified fragment represents the chromosome containing that EST.

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The assignment of 100 ESTs and corresponding genes to chromosomes by PCR is shown in Table 3.

Table 3: Assignment of ESTs to Chromosomes by PCR

SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
5	EST00012	1	TCCAGGCAATCCCAGAATAG	CTAATTGAGCTCACTGGCCC
57	EST00058	1	CTGTTTGCAAGTTTCAAAGC	GCCATTTCTAACAACCAGAG
64	EST00066	1	GCCATTGTGCTGAATAGAGT	GTTAGTGTTCCTTAGCAAG
83	EST00079	1	CAGCTAATTGACCTGGGCTA	CAACATGCTCTGAGCTTTAG
83	EST00079	1	GGCAGAGCATAAAGAGTATA	CATATGCATATGGTCCCTAT
91	EST00086	1	AGTTTATAGATGGAGGGCTGTC	TCTGCCCTAATGCGCAGGCT
105	EST00365	1	CTTAATCACCTCCCTTTTGT	CCTTAGTTGGAGATAAGGTC
109	EST00095	1	AGTCTAATCCTGTACACTTG	CGGGCTTTCTCTGAATTGGT
116	EST00100	1	TTAGAAGTGCCCATGGGAGG	TTTTAAGGCTCTGGAGTGTT
141	EST00118	1	CTCAGAGAACTTAGGTGAA	CTACAGAATCATTTACCAG
220	EST00372	1	AAGTTGCACATTGCCCAAGG	ATAGTACTGCAAGGTTATT
237	EST00187	1	TTACAAATTTCTCTTGACGC	CTGAAGGAGCACAGTTTCTC
242	EST00192	1	GGATCAGATAATCAAACAGG	GCTTAGGATATGAATGCATA
259	EST00202	1	GCATCACAGTTTAACTGAGG	CTACATATTTGTGCTCCTT
269	EST00293	1	CTGTTGCTGTGCAGTAGCTT	CTTTTGACCCAGTGAAACTT
299	EST00249	1	GATCATGCAGACGTAGATAT	CCAACCTCTGCCAGATCATT
1651	EST00810	1	TAGTCGCTGTAAGTTGATT	GCTTTGCTGGATGCTTCATT
16	EST00021	2	CAGGCAAGTTTCTCCAGGA	TCAGACCCATGGTCAGCTT
1898	EST01013	2	GGCTGAGAACGGTTAGCATA	CCCTCAGCTTAGGGGAATG
8	EST00234	2	TAGAAGGCAAACTATGTCCC	GGTTGAGGATTGGCTTTTAC
36	EST00037	2	AGCCAGAAGGCTGCTTAAAG	GCAGTGAACCACTACTCCTA
123	EST00106	2	GTCTAATTTGTAACTTCAG	GATAGATTGTATAAGAAGCC
192	EST00155	2	GATTTATGTCTGGGAACATA	GCAGCATGTGAAAGAATGAT
200	EST00162	2	TTTAATGGGTGGTGGGAGCT	CGATGCACATCCTTCTCCAT
284	EST00216	2	CCTAAGAATTTCGTTGGGCTC	GTCTGGCACATAATAGATTG
102	EST00248	3	ATACTACATCTAGTCTGG	TTACAGTCTCTGTGGTTTC
167	EST00138	3	AAACAGCTGCGGAGTACA	AAAGGATCCTCCACTCCAGA
12	EST00274	3	CCTAGCAAACCTCATACAC	CATAAGTGAATGGACACAGG
60	EST00062	3	ACACATTAACGGTGCTGCAG	GGAAATCAGCCCTTGAGGACT
77	EST00257	3	AAGCTCACAACGCAGATCTG	CTGGAACAGCTTACAAAGGT
107	EST00093	3	ATTGAACTCTGTCAACAGTG	TGTAACAAAGGCCAAACT
108	EST00094	3	AL2 - GCAGGATGTCAGTCTTTTGG	AGCACACATTATCTACCACGGC
1706	EST00857	3	AL2 - GCAGGATGTCAGTCTTTTGG	CCAGCACACATTATCTACCACG
37	EST00038	4	AACTTCGCAGTCATGAGAAC	TGTATCGGGCAGTCTCGAG
6	EST00013	4	CACATGTTCTCCCTCTTTCA	GCATTTTGGAGCTCTTCCGT
37	EST00038	4	AL2 - GGAAGTACAGGATTGGC	TTAGAGATGGGATGATGCCG
31	EST00033	5	TGGGTACCCTAAGGTGTTTG	GACTAATCTAAGGTCTAGG
28	EST00030	5	AGATAAGTTAGGAAGCTGGT	ACTCACTGCTAGTATCATCC
59	EST00061	5	AAAGTTTCTTAGCACCCCCC	CAGACTTTGACAAAAGAATC
74	EST00073	5	ATCAGACACGTGGCAGGGTT	AAGTCCCTGAGGGTGCAGAA
121	EST00104	5	TGAAGGCAGCTGCTAAATCT	GGATGTATTGATCTGACTCA
149	EST00123	5	ATACTGTCAACGGAGGGTGA	GTCTGCAGGTTTCTCCTTGA
235	EST00185	5	TTACTGTCCCATCAGATATC	TACACTCTTAAGAAGGTATG
1643	EST00803	5	GAGCGTTTAAAAGAGATTCT	TACAGACAGCCATGTTCCAA
1677	EST00835	5	AL2 - TCTCCAACACAGTCATGC	CGGATGCCATCATATACC
23	EST00026	5	CCTGCAGTGACACTTAACAT	CTGCTCACCTGAAATTGATAC
121	EST00104	5	AL2 - CAGATCAATACATCCTCTGGG	CTGTGCAGTGGTGAGTAAAAGG

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SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
1	EST00007	6	TAGTTGATGGTCTGGGTTAT	GAAATCCCAGGGAGACAATG
19	EST00023	6	CAACTTACATTAGGGGTTTG	GACCTCATTAGAAGAGCCCA
155	EST00129	6	GGAAGCTGCCATATAAGCTC	TCAGTGTCTGACAAATCTACC
224	EST00356	6	GCTGTATGTTAACCCTTTGT	TGGAACCCCTCAAACACTGCT
288	EST00219	6	ACTTTCATGTTGAGAAGTAT	ATCTAGCTGAAACATTGCTG
1638	EST00798	6	CTTCATCTGTTAACTGTTGA	TGAAAATGAGTCACAGGCAG
1675	EST00833	6	AL2 - ACCCAGTTCTCAAAGACC	GGTTTACCATTTCAGAGGC
22	EST00301	6	CTCCGTGATTACCTTCTCT	TTGTAGGTATCTCTGTACAGT
207	EST00167	7	GGTGCTACTTTGTGAATGCT	AGCAATGTGATTTTGTAGG
137	EST00272	7	AGTGGTCACTATCTACATGG	GATTTCAGAACTACTAAGCCG
1659	EST00817	7	TGTATAGGCTCTACATAAAG	CTTAATCATGGATTCTTCGT
1680	EST00838	7	AL2 - GTTCTTTCCAGGTATGC	TTGTTGGTACTGAGGAAGTGCG
292	EST00223	8	TGCAGCAGTGACCATGAGAA	ATCATCTTTCCACGCGGCTT
134	EST00375	9	TCTGGGCTTCTGTGGTTCAA	CTGGCTGCTCAGCAACTCAT
1906	EST01021	9	GGATGTTTTCTATGTACGA	TTCCAGTGCCCTTTTGTCC
1645	EST00804	10	CTCCTTTGGGACAAACAAC	CCAACCCAAACATATTCTA
20	EST00024	10	AGCTGTTCCCTGAGAGATGCA	CCTTGTGAAGAAAGACTTTC
157	EST00131	10	TCAGCAACAGGTCACCTTGG	CTAAGCATCTGCATGTCCAG
172	EST00142	10	TACTAGCATTCTTACTCTC	TATGCTGATTGTTTGCACCT
250	EST00197	10	GGTGATTAGAGAGTCTGTTG	GAACTCTGTAGTGTCTAAA
133	EST00111	11	GGAAATTAGGCTTAGCTCAC	GTGCAGAACTACTTAGATCC
178	EST00294	11	GTTTGAAGGAAGTGATTTC	TAGGGCCACTCCAGTTCAT
10	EST00016	11	GTCTTTGGATTCTACGTAGA	CGATAATGACATTTCTCTGG
126	EST00109	11	AL2 - CTAACCACAACCACACATTG	CCTCAGCACAAGAGAAGATGG
7	EST00014	12	AACTTGCAACATAAATACTAG	GAGCAATGATTTCTAACAGT
254	EST00200	13	TTGTGTAAGTGTCTGATAGAC	TAAGCCATGGGCATCTATAA
2409	EST00273	13	GCAAGATGATGGAACATCCC	TTCTTTCTGGAGGCTCTACA
170	EST00295	14	GGTGCTTAAGGCCACTTTTG	CTTAGAGGATCATAGGCTG
255	EST00201	14	CCAGGAGAGTAAGAAGATCA	GCAGAGTTGAATATGAACCT
290	EST00221	14	GTGCCAAGATGGCTCATGTA	GTATAGCTTTAAGCCAGTTC
293	EST00224	14	AATGCATTATGCCTGGTCTT	GGAAAAGTCTAGAAGTCTAGT
1664	EST00822	14	GGGTCAGAATTAAGAGGTCT	GTTTCATCTCTAAGCTCTTTC
315	EST00008	14	AAGCTGGCTGGGAAATGTTT	GTCTAGTCTAGTAACTTACAC
1689	EST00845	14	AL2 - AGGAGGAAGCTGAAATCC	GGAAGTCCATAAGAGACTCACC
95	EST00088	15	GTGACAGACCATGTCTATTG	AAGTGAGCGATTGCACCTTC
205	EST00165	15	AGGATGACCTGAGTGAGCTG	CCATGGCAGCAAGGAAGTCT
33	EST00034	16	TGTGTGAAAGGGAGTCTTGT	CCATTTTGAAGTCTTCCATAG
247	EST00279	16	TGGCTAGGGCAGGCCTTAAA	GAGAAGAATATCAATGGGG
18	EST00373	16	CCATCTGTGTCCCAATTAAGC	AGGGAAGAAGTCTAGAGCGA
68	EST00068	17	CAAAGACGGGAGACGAATGA	AGTGGAAACGCGTGGCCTATG
1652	EST00811	17	GAGCTGCATGTTGATAAGTA	TTGACTTAAGCTGACCTTAA
1702	EST00854	17	AL2 - TTGCTGTGGAATCCATGAGAG	GGCAAGTGATCTGTTCTTGG
84	EST00080	19	AGAGATGTCACTCCATTATC	CTATTCCACCTTACTCAAGG
223	EST00368	19	CATCATGTCTCGAGACGCATT	TGGATGACCTGAGTCTGCAG
21	EST00025	20	AGTTCTGGAGGCTAGGAGTT	ATGTAAGGACCCCTAGATGG
210	EST00168	20	TGTCAACTTCCCTTTGGCCT	GAAGCTTGCTCATTACAGGAA
136	EST00113	20	AL2 - TCGGAGAAGTTGCAGTTTCTG	GTTAAAGCTGTTAGACGGGGC
120	EST00103	22	CAGTGACTGACTCCTCTTTA	GGAACCGTAAGTCTCCATAG
313	EST00276	X	ATTGACCTTCAATGTAATAA	TTGGATTGGGCAAAATAG

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<u>SEQ ID</u>	<u>EST#</u>	<u>Chr</u>	<u>PRIMER #1</u>	<u>PRIMER #2</u>
162	EST00133	X	ATGTGAGCATCTATACCTGC	AATGAAGGCATGAGAATAGG
1669	EST00827	X	CGGACAACTAGGATAAATGC	TACGCGTTTGAATGGCTTGA
1917	EST01029	X	GAATAGCATTATTAGCCAGT	GGACCTATTGGAGATCTACT
1708	EST00858	X	AL2-AAGGCGAGGATTATGTGC	TTCTACTGGGTACACTTCGACC

Abbreviation: AL2: Amino-Link-2 Fluorescent Tag, Chr.: Chromosome.

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The foregoing techniques have been used to further localize 9 ESTs and their associated genes to precise locations onto chromosome 6 or chromosome X, as reflected in Table 4A (in Example 7 below), using sublocalization techniques that employ somatic cell hybrids. ESTs were used as hybridization probes and mapped to other chromosomes using techniques disclosed in Example 7. Somatic cell hybrids were prepared that contained defined subsets of chromosomes 6 and X. Methods for preparing and selecting somatic cell hybrids are known in the art. For a review of an exemplary procedure to generate somatic cell hybrids containing the short arm of human chromosome 6, see Zoghbi, et al., *Genomics* 9(4):713-720 (1991). For a general review of somatic cell hybridization see Ledbetter et al. (*supra*). The hybrids were processed to obtain DNA and analyzed by PCR and by fluorescence in situ hybridization. SEQ ID NOs 19, 22, 1, 224, 288 mapped to chromosome 6, while SEQ ID NOs 162, 1917, 1699 and 1899 mapped to chromosome X using somatic cell hybrids.

#### EXAMPLE 6

##### Mapping of All ESTs to Human Chromosomes

The procedure of Example 5 is repeated for all of the ESTs from Examples 1 and 2 not previously mapped to human chromosomes. Data are generated corresponding to the data in Table 3 for all of the unmapped ESTs. As previously mentioned, virtually all of the ESTs will map to a unique chromosomal location. The inability of any ESTs to localize to a unique location will be readily ascertainable during the mapping process.

Physical mapping of the type reported in Table 4 on all the EST clones reported here would provide human chromosome markers spaced on average every 1.2 megabases and would roughly double the number of expressed sequences that have been localized to chromosomes (McKusick, V. FASEB

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J. 5: 12-20 (1991)). Mapped ESTs are also a new resource to identify candidates for the estimated 5000 single-locus disease-associated genes (Id.).

#### EXAMPLE 7

5        Alternative Technique for Mapping to Chromosomes  
      Mapping of ESTs to chromosomes using fluorescence in situ  
          hybridization

10        This technique was used to map an EST to a particular location on a given chromosome. Cell cultures, tissue, or whole blood were used to obtain chromosomes.

      0.5 ml. of whole blood was added to RPMI 1640 and incubated 96 hours in a 5%CO<sub>2</sub>/37°C incubator. 0.05 ug/ml colcemide was added to the culture one hour before harvest. Cells were collected and washed in PBS. The suspension was  
15        incubated with a hypotonic solution of KCl added dropwise to reach a final volume of 5 ml. The cells were spun down and fixed by resuspending the cells in methanol and glacial acetic acid (3:1). The cell suspension was dropped onto glass slides and dried.

20        The slides were treated with RNase A and washed then dehydrated in a series of increasing concentrations of ethanol.

      The EST to be localized was nick-translated using fluorescently labeled nucleotide (Korenberg, Jr., et al.,  
25        Cell 53(3):391-400 (1988)). Following nick translation, unincorporated label was removed by spin dialysis through Sepharose. The probe was further extracted with phenol-chloroform to remove additional protein. The chromosomes were denatured in formamide using techniques known in the art and the denatured probe was added to the slides. Following  
30        hybridization, the cells were washed. The slides were studied under a fluorescent microscope. In addition, the chromosomes can be stained for G-banding or Q-banding using techniques known in the art.

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The resulting metaphase chromosomes had fluorescent tags localized to those regions of the chromosome that were homologous to the EST. Thus, a particular EST was localized to a particular region on a given chromosome. In this manner, SEQ ID NOs 396, 485, 506, 1880 and 1894 were mapped using fluorescent in situ hybridization to locations on chromosomes 17, 7, 10 and 1 respectively (See Table 4B below). For a review of the technique see Verma et al., **Human Chromosomes: A Manual of Basic Techniques**. Pergamon Press, NY (1988), which is hereby incorporated by reference.

Table 4: Precise Chromosomal Localization of ESTs

	SEQ ID	EST#	Map Location
	-----	-----	-----
	A.		
	19	EST00023	6p
15	22	EST00301	6p
	1894	EST01643	6p21
	1	EST00007	6q
	224	EST00356	6q
	288	EST00219	6q
20	162	EST00133	Xp11.21 - Xp21.2
	1917	EST01029	Xp11.21 - Xp21.2
	1669	EST00827	Xq26 - Xq27.1
	1899	EST01014	Xq28
	B.		
	1880	EST01634	1q32
25	485	EST01466	7p13
	506	EST01471	10q11.2
	396	EST01443	17q25

## EXAMPLE 8

Automated DNA Sequencing Accuracy

ESTs that match human sequences in GenBank are excellent tools for the analysis of the accuracy of double-strand automated DNA sequencing. Ninety EST/GenBank matches were examined for the number of nucleotide mismatches and gaps required to achieve optimal alignment by the Genetics Computer Group (GCG) program BESTFIT (Devereux et al, **Nucleic Acids Research** 12: 387 (1984)).

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The number of mismatches, insertions and deletions was counted for each hundred bases of the sequence (Table 5). As expected, the sequence quality was best closest to the primer and decreased rapidly after about 400 bases. The number of deletions and insertions relative to the GenBank reference sequence increased five- to ten-fold beyond 400 bases, while the number of mismatches doubled. The average accuracy rate for individual double-stranded sequencing runs was 97.7% to 400 bases.

TABLE 5. Accuracy Of Single-Run Double-Stranded Automated Sequencing

<u>Bases from Primer</u>	<u>Mismatches/ Ambiguities</u> <sup>+</sup>	<u>Gaps Insertions</u> <sup>+</sup>	<u>Percent Deletions</u> <sup>+</sup>	<u>Aligned Accurate</u>	<u>Bases</u>
101 - 200	1.45	0.18	0.19	98.2	8,800
201 - 300	1.72	0.25	0.11	97.9	8,130
301 - 400	2.07	0.98	0.37	96.6	5,404
>400	3.53	2.63	1.06	92.8	3,197

ESTs statistically identical to known human sequences and those matching mitochondrial and ribosomal genes were aligned with sequenced from GenBank using the GCG program BESTFIT. The first 85 nucleotides was polylinker sequence which was not aligned with the pBluescript SK reference sequence. Tabulation of errors began 15 bases into the BESTFIT alignment and thus is reported beginning with bases 101-200. <sup>+</sup>Error rates are reported as number of mismatches, insertions, or deletions per hundred aligned bases. "Mismatches" includes ambiguous base calls.

## EXAMPLE 9

Probability of ESTs Containing Coding Sequences

The ESTs of the present invention were statistically evaluated using the coding-region prediction program CRM via the GRAIL server (Uberbacher, E. & Mural, R. Proc. Natl. Acad. Sci. USA, 88: 11261-5 (1991)). The CRM program uses a neural network to combine results from several different coding regions by looking at different 6 bp sequences found in coding exons and in introns. The program additionally conducts reading frame searches and assesses randomness at the third position of codons. This protocol categorizes sequences as having an excellent, good, marginal, or poor probability of containing coding regions. The results are reported in Tables 6-9. There were 219 ESTs categorized as "excellent" (Table 6); 120 categorized as "good" (Table 7); 113 categorized as "marginal" (Table 8); and 1743 categorized as "poor" (Table 9). These results indicate that most ESTs of the present invention comprise noncoding regions.

Table 6: ESTs with Excellent Probability of Containing Coding Sequence

SEQ ID#	EST#				
7	EST00014	973	EST01987	1807	EST00941
15	EST00020	979	EST01993	1809	EST00943
48	EST00291	980	EST01994	1820	EST00951
62	EST00064	986	EST02000	1829	EST00958
66	EST00067	1000	EST02014	1849	EST00975
75	EST00074	1004	EST02018	1860	EST00983
98	EST00260	1007	EST02021	1866	EST00989
106	EST00092	1018	EST02032	1871	EST00994
108	EST00094	1021	EST02035	1888	EST01005
114	EST00098	1034	EST02050	1890	EST01007
115	EST00099	1047	EST02063	1892	EST01009
124	EST00107	1090	EST02109	1903	EST01018
128	EST00252	1096	EST02115	1904	EST01019
156	EST00130	1115	EST02135	1914	EST01026
164	EST00135	1118	EST02138	1930	EST01040
166	EST00137	1129	EST02149	1944	EST01050
174	EST00296	1133	EST02153	1949	EST01054
179	EST00145	1141	EST02163	1962	EST01062
183	EST00148	1163	EST02187	1973	EST01071
201	EST00163	1183	EST02208	1977	EST01075
205	EST00165	1243	EST02272	1982	EST01080
215	EST00172	1264	EST02293	1991	EST01088
230	EST00181	1265	EST02294	1993	EST01090
253	EST00199	1266	EST02295	2000	EST01097
263	EST00203	1287	EST02317	2001	EST01098
268	EST00369	1308	EST02338	2012	EST01106
270	EST00207	1324	EST02354	2013	EST01107
271	EST00283	1344	EST02374	2024	EST01117
273	EST00208	1356	EST02386	2043	EST01131
276	EST00211	1365	EST02396	2051	EST01138
281	EST00214	1383	EST02415	2056	EST01142
285	EST00286	1399	EST02433	2058	EST01144
333	EST00394	1401	EST02435	2059	EST01145
336	EST00397	1405	EST02439	2064	EST01149
339	EST00400	1417	EST02452	2090	EST01167
362	EST00418	1451	EST02487	2094	EST01171
389	EST00440	1457	EST02493	2116	EST01192
441	EST00481	1463	EST02500	2117	EST01193
454	EST00493	1473	EST02510	2128	EST01202
476	EST00509	1479	EST02516	2131	EST01205
493	EST00522	1516	EST02555	2134	EST01208
504	EST00529	1528	EST02569	2144	EST01216
516	EST00538	1531	EST02572	2145	EST01217
518	EST00540	1544	EST02586	2150	EST01222
551	EST01482	1551	EST02593	2155	EST01227
552	EST00565	1558	EST02601	2161	EST01231
559	EST00570	1561	EST02604	2163	EST01238
582	EST00592	1581	EST02625	2174	EST01242
602	EST00606	1586	EST02631	2176	EST01244
606	EST00609	1591	EST02636	2189	EST01255
608	EST00611	1616	EST02661	2214	EST01272
621	EST00620	1624	EST02670	2225	EST01278
635	EST00629	1630	EST02676	2227	EST01279
642	EST00634	1637	EST00796	2233	EST01284
644	EST00636	1639	EST00799	2235	EST01286
687	EST00671	1649	EST00808	2236	EST01287
700	EST00683	1651	EST00810	2255	EST01302
743	EST00714	1677	EST00835	2259	EST01304
753	EST00721	1682	EST00839	2263	EST01307
760	EST00726	1694	EST00849		
764	EST00729	1706	EST00857		
808	EST00761	1708	EST00858	2267	EST01756
823	EST01864	1710	EST00860	2281	EST01321
834	EST00771	1716	EST00865	2283	EST01322
886	EST01886			2300	EST01333
919	EST01921	1718	EST00867	2303	EST01335
930	EST01933	1731	EST00879	2303	EST01335
		1742	EST00887	2314	EST01345
		1746	EST00891	2334	EST01358
		1760	EST00903	2339	EST01362
		1767	EST00907	2342	EST01365
		1769	EST00909	2348	EST01371
		1777	EST00913	2358	EST01379
				2367	EST01388

Table 7: ESTs with Good Probability of Containing Coding Sequence

<u>SEQ ID#</u>	<u>EST#</u>				
		1041	EST02057	2362	EST01383
		1083	EST02102	2378	EST01397
20	EST00024	1099	EST02118	2399	EST01423
72	EST00071	1105	EST02124	2407	EST02714
82	EST00078	1113	EST02133		
88	EST00084	1139	EST02161		
137	EST00272	1146	EST02168		
177	EST00328	1196	EST02221		
193	EST00156	1210	EST02238		
200	EST00162	1233	EST02262		
218	EST00175	1285	EST02314		
228	EST00179	1331	EST02361		
247	EST00279	1388	EST02421		
264	EST00204	1418	EST02453		
267	EST00297	1439	EST02475		
296	EST00228	1502	EST02540		
371	EST00426	1537	EST02578		
385	EST00436	1563	EST02606		
392	EST00442	1599	EST02644		
414	EST00460	1602	EST02647		
433	EST00474	1693	EST00848		
453	EST00492	1695	EST00850		
471	EST00505	1729	EST00877		
496	EST00525	1730	EST00878		
524	EST00544	1738	EST00883		
526	EST00546	1739	EST00885		
529	EST00549	1743	EST00888		
549	EST00563	1768	EST00908		
557	EST00569	1780	EST00916		
578	EST00588	1804	EST00938		
596	EST00602	1805	EST00939		
607	EST00610	1811	EST00945		
619	EST00619	1819	EST00950		
657	EST00646	1826	EST00956		
660	EST00649	1830	EST00959		
689	EST00673	1845	EST00971		
695	EST00679	1848	EST00974		
699	EST00682	1853	EST00977		
729	EST00703	1967	EST01066		
742	EST00713	1992	EST01089		
747	EST00717	1994	EST01091		
755	EST00723	<u>SEQ ID#</u>	<u>EST#</u>		
759	EST00725				
776	EST00738	1997	EST01094		
778	EST00740	2046	EST01134		
782	EST01551	2101	EST01177		
829	EST00768	2102	EST01178		
835	EST00772	2105	EST01181		
836	EST00773	2106	EST01182		
862	EST01872	2141	EST01213		
881	EST01881	2184	EST01251		
<u>SEQ ID#</u>	<u>EST#</u>	2196	EST01260		
		2203	EST01264		
884	EST01884	2232	EST01283		
924	EST01926	2308	EST01339		
929	EST01932	2345	EST01368		
938	EST01941	2346	EST01369		
971	EST01985	2351	EST01373		
995	EST02009	2354	EST01375		
996	EST02010	2355	EST01376		
1031	EST02046	2359	EST01380		

Table 8: ESTs with Marginal Probability of Containing Coding Sequence

<u>SEQ ID#</u>	<u>EST#</u>		
11	EST00018	1222	EST02251
12	EST00274	1224	EST02253
24	EST00027	1228	EST02257
45	EST00364	1267	EST02296
79	EST00076	1301	EST02331
90	EST00302	1397	EST02431
110	EST00096	1448	EST02484
144	EST00120	1480	EST02517
145	EST00121	1493	EST02531
192	EST00155	1499	EST02537
222	EST00177	1503	EST02541
234	EST00184	1527	EST02568
277	EST00212	1536	EST02577
319	EST00381	1548	EST02590
368	EST00423	1562	EST02605
370	EST00425	1572	EST02615
387	EST00438	1575	EST02618
402	EST00451	1595	EST02640
415	EST00461	1608	EST02653
418	EST00464	1610	EST02655
426	EST00470	1621	EST02667
503	EST00528	1627	EST02674
517	EST00539	1629	EST02677
522	EST00543	1631	EST02678
532	EST00551	1683	EST00840
540	EST00557	1692	EST00847
570	EST00580	1751	EST00895
573	EST00583	1756	EST00900
576	EST00586	1764	EST02690
613	EST00615	1770	EST00910
617	EST00617	1793	EST00929
626	EST00622	1847	EST00973
681	EST00665	1877	EST00998
726	EST00700	1897	EST01012
727	EST00701	1900	EST01015
738	EST00711	1939	EST01655
745	EST00715	1940	EST01046
752	EST00720	1954	EST01058
791	EST00746	<u>SEQ ID#</u>	<u>EST#</u>
795	EST00749	1990	EST01087
803	EST00756	2008	EST01103
845	EST00777	2031	EST01123
852	EST00782	2041	EST01130
854	EST00784	2044	EST01132
907	EST01907	2060	EST01146
912	EST01912	2100	EST01176
935	EST01938	2136	EST01210
<u>SEQ ID#</u>	<u>EST#</u>	2153	EST01225
968	EST01981	2204	EST01265
985	EST01999	2212	EST01270
988	EST02002	2248	EST01297
1043	EST02059	2250	EST01299
1081	EST02100	2266	EST01310
1089	EST02108	2309	EST01340
1116	EST02136	2347	EST01370
1134	EST02154	2388	EST01406
1205	EST02233	2398	EST01422
		2405	EST01427

Table 9: ESTs with Poor Coding Probability

SEQ ID#	EST#	103	EST00317	204	EST00235	309	EST00174	404	EST00453
1	EST00007	104	EST00354	206	EST00166	315	EST00008	405	EST00454
2	EST00009	105	EST00365	207	EST00167	316	EST00378	406	EST00455
3	EST00010	107	EST00093	209	EST00331	317	EST00379	407	EST00456
4	EST00011	109	EST00095	210	EST00168	318	EST00380	408	EST00457
5	EST00012	111	EST00281	211	EST00332	320	EST00382	409	EST01444
6	EST00013	112	EST00318	212	EST00169	321	EST00383	410	EST00458
8	EST00234	113	EST00097	213	EST00170	322	EST00384	411	EST00459
10	EST00016	116	EST00100	214	EST00171	323	EST00385	412	EST01445
14	EST00019	117	EST00319	216	EST00173	325	EST00386	416	EST00462
16	EST00021	118	EST00101	219	EST00176	326	EST00387	417	EST00463
17	EST00022	119	EST00102	220	EST00372	327	EST00388	419	EST00465
18	EST00373	120	EST00103	221	EST00359	328	EST00389	420	EST00466
19	EST00023	121	EST00104	224	EST00356	329	EST00390	421	EST00467
21	EST00025	122	EST00105	225	EST00178	330	EST00391	422	EST01447
23	EST00026	123	EST00106	226	EST00333	331	EST00392	423	EST00468
25	EST00028	125	EST00108	229	EST00180	332	EST00393	424	EST01448
27	EST00029	126	EST00109	231	EST00334	334	EST00395	425	EST00469
28	EST00030	127	EST00320	232	EST00182	335	EST00396	427	EST01449
29	EST00031	129	EST00321	233	EST00183	337	EST00398	428	EST01451
30	EST00032	130	EST00355	235	EST00185	340	EST00402	429	EST00471
31	EST00033	131	EST00322	236	EST00186	341	EST00403	431	EST00473
32	EST00233	133	EST00111	237	EST00187	342	EST00404	432	EST01452
33	EST00034	134	EST00375	238	EST00188	344	EST00405	434	EST00475
34	EST00035	135	EST00112	239	EST00189	345	EST00406	435	EST00476
35	EST00036	136	EST00113	240	EST00335	347	EST01829	436	EST00477
36	EST00037	138	EST00114	241	EST00191	348	EST01830	437	EST00478
39	EST00039	139	EST00116	242	EST00192	349	EST01831	438	EST00479
40	EST00040	140	EST00117	243	EST00193	350	EST00407	439	EST00480
41	EST00041	141	EST00118	244	EST00194	351	EST00408	440	EST01454
42	EST00042	142	EST00323	245	EST00347	352	EST00409	442	EST01456
46	EST00044	143	EST00119	246	EST00196	353	EST00410	443	EST00482
47	EST00046	146	EST00122	250	EST00197	354	EST01433	444	EST00483
49	EST00047	147	EST00292	252	EST00198	355	EST00411	446	EST00485
50	EST00048	148	EST00236	254	EST00200	356	EST00412	447	EST00486
51	EST00049	149	EST00123	255	EST00201	357	EST00413	448	EST00487
52	EST00052	150	EST00124	256	EST00345	358	EST00414	449	EST00488
53	EST00054	151	EST00125	257	EST00337	359	EST00415	450	EST00489
54	EST00055	152	EST00126	259	EST00202	360	EST00416	451	EST00490
55	EST00056	153	EST00127	260	EST00357	361	EST00417	452	EST00491
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68	EST00068	165	EST00136	279	EST00213	374	EST00428	465	EST00500
69	EST00360	167	EST00138	280	EST00343	375	EST00429	466	EST00501
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76	EST00075	171	EST00327	287	EST00218	379	EST00432	SEQ ID#	EST#
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81	EST00315	173	EST00143	289	EST00220	381	EST00433	474	EST00507
83	EST00079	175	EST00144	290	EST00221	382	EST00434	477	EST01463
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85	EST00081	182	EST00329	292	EST00223	383	EST00435	479	EST00511
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		203	EST00164	308	EST00314	403	EST00452	497	EST00526

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521	EST01474	625	EST01844	716	EST01524	819	EST01859	911	EST01911
523	EST01838	627	EST00623	717	EST01525	820	EST01860	914	EST01914
525	EST00545	628	EST01503	718	EST00696	822	EST01863	915	EST01915
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537	EST00554	638	EST00631	731	EST00705	838	EST00774	926	EST01929
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544	EST00560	647	EST00639	737	EST00710	844	EST01565	934	EST01937
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577	EST00587	674	EST01516	774	EST01548	871	EST00790	964	EST01977
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587	EST01488	682	EST00666	785	EST01553	878	EST01878	976	EST01990
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591	EST01489	686	EST00670	789	EST00745	883	EST01883	982	EST01996
592	EST00600	688	EST00672	790	EST01554	885	EST01885	983	EST01997
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597	EST00603	693	EST00677	794	EST01555	890	EST01890	989	EST02003
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2003	EST01675	2107	EST01183	2210	EST01268	2321	EST01350		
2005	EST01100	2108	EST01184	2211	EST01269	2322	EST01351		
2006	EST01101	2109	EST01185	2213	EST01271	2323	EST01789		
2007	EST01102	2110	EST01186	2215	EST01273	2325	EST01353		
2009	EST01677	2111	EST01187	2218	EST01274	2327	EST01354		
2010	EST01104	2112	EST01188	2219	EST01275	2328	EST01355		
2011	EST01105	2113	EST01189	2220	EST01740	2329	EST01792		
2014	EST01108	2114	EST01190	2221	EST01741	2330	EST01793		
2015	EST01109	2115	EST01191	2222	EST01276	2331	EST01356		

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<u>SEQ ID#</u>	<u>EST#</u>
2389	EST01407
2391	EST01415
2392	EST01416
2395	EST01419
2397	EST01421
2401	EST01424
2403	EST01425
2404	EST01426
2406	EST02713
2409	EST00273

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## EXAMPLE 10

Functional Groupings of ESTs and Corresponding Genes

By matching new human ESTs to known sequences from other species, the apparent function of the gene corresponding to the EST can be ascertained. The data generated in Example 3 and 4 have been used to categorize 127 of the ESTs of the present invention, and their corresponding genes, into predicted functional groups. (These 127 are ESTs with database matches to sequences from other species for which a function was known.) Two different grouping schemes have been used.

The first scheme separates the sequences into three broad categories: metabolic; regulatory; and structural. These groupings are set out in Table 10.

The second grouping scheme separates the sequences into 13 specific categories: cell surface proteins; developmental control; energy metabolism; kinases and phosphatases; oncogenes; other metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. These groupings are set out in Table 11.

Table 10: Three-Class Functional Groupings of ESTs

SEQ ID	EST#	Group	Putative Identification
1834	EST01620	M	AMP deaminase, brain
97	EST00289	M	Aconitase
691	EST00675	M	Alcohol dehydrogenase
2092	EST01700	M	Anion exchanger homolog AE3
396	EST01443	M	CDPdiacylglycerol-serine O-phosphatidyltransferase
1956	EST01663	M	Ca2+-transporting ATPase 2
1039	EST02055	M	Calcium channel
2192	EST01257	M	Diacylglycerol kinase, lymphocyte
1441	EST02477	M	Diamine acetyltransferase
2289	EST01325	M	Fatty acid synthase
310	EST00377	M	Fo ATPase beta subunit, mitochondrial
1667	EST00825	M	Gamma-aminobutyric acid transporter
1412	EST02446	M	Glutamate-aspartate carrier protein
1020	EST02034	M	Glutaminase
2326	EST01791	M	Inositol-1,4,5-trisphosphate 3-kinase
2173	EST01724	M	Lon protease
1427	EST02463	M	Long-chain-fatty-acid-CoA ligase
2226	EST01744	M	NAD(P)+ transhydrogenase (B-specific)
1566	EST02609	M	Neutrophil oxidase factor
1681	EST01573	M	Nucleoside diphosphate kinase
2254	EST01751	M	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase
93	EST00287	M	Processing enhancing protein
2297	EST01775	M	Prohormone cleavage enzyme
9	EST00376	M	Prolyl endopeptidase
1654	EST01572	M	Protochlorophyllide reductase
38	EST00374	M	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	M	Ribosomal protein L18a
1856	EST01627	M	Ribosomal protein L1a
1974	EST01667	M	Ribosomal protein L3
301	EST00300	M	Ribosomal protein L30
22	EST00301	M	Ribosomal protein S10
2402	EST01826	M	Ribosomal protein S10
463	EST01459	M	Ribosomal protein YL10
2073	EST01697	M	Succinate dehydrogenase flavoprotein
2138	EST01715	M	Succinate dehydrogenase flavoprotein
1771	EST01601	M	Thiosulfate sulfurtransferase (rhodanese)
2121	EST01711	M	Valine-tRNA ligase
1726	EST01588	M	XPR2 alkaline extracellular protease
913	EST01913	M	Clathrin coat assembly protein AP50 homolog
1035	EST02051	M	J1 protein
969	EST01982	R	ADP-ribosylation factor 1
1126	EST02146	R	Calbindin D28
1910	EST01645	R	Calmodulin
485	EST01466	R	Calmodulin-dependent protein kinase, type II, beta
2302	EST01779	R	Discs-large tumor suppressor
188	EST00256	R	Enhancer of split
1229	EST02258	R	KUP protein
993	EST02007	R	Kinase 5 protein
2282	EST01764	R	Lamin B receptor
SEQ ID	EST#	Group	Putative Identification
161	EST00247	R	MARCKS (myristoylated alanine-rich protein kinase)
769	EST00734	R	MARCKS homolog
1386	EST02418	R	MARCKS homolog
227	EST00259	R	Notch/Xotch
952	EST01961	R	Notch/Xotch
1395	EST02429	R	Nuclear factor 1-like protein (NF1)
2353	EST01806	R	Prohibitin
1069	EST02087	R	Protein kinase C, zeta
1933	EST01650	R	Protein phosphatase 2A beta subunit

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202	EST00298	R	Protein-tyrosine phosphatase LRP
1478	EST02515	R	Rab5
1408	EST02442	R	Seven in absentia
300	EST00232	R	Transforming protein (dbl)
1147	EST02169	R	Tyrosine kinase
1348	EST02378	R	cAMP-dependent protein kinase inhibitor
1931	EST01041	R	cAMP-regulated phosphoprotein
1413	EST02447	R	cAMP-specific phosphodiesterase
37	EST00038	R	ras p21-like small GTP-binding protein (smg GDS)
102	EST00248	R	rho H12/ ARH12
299	EST00249	R	smg p25A GDP dissociation inhibitor
189	EST00282	R	trkB
1332	EST02362	R	GA binding protein, beta subunit
1277	EST02306	R	Bib protein
43	EST00371	R	Maternal G10 protein
1704	EST01580	R	Myeloid differentiation primary response gene My
346	EST01828	R	Otd homeotic protein
187	EST00152	R	Wilm's tumor-related protein
249	EST00275	R	Zinc Finger Proteins
413	EST01446	R	Zinc Finger Proteins
469	EST01460	R	Zinc Finger Proteins
833	EST01560	R	Zinc Finger Proteins
1230	EST02259	R	Zinc finger proteins
1496	EST02534	R	Zinc finger proteins
2324	EST01352	R	Zinc Finger Proteins
208	EST00250	S	60K filarial antigen
2320	EST01784	S	60K filarial antigen
251	EST00370	S	Actin, other
2146	EST01218	S	Actin, other
248	EST00271	S	Actinin, alpha
891	EST01891	S	Actinin, alpha
1500	EST02538	S	Actinin, alpha
132	EST00110	S	Agrin
1852	EST01625	S	Agrin
1965	EST01664	S	Amyloid A4
2068	EST01694	S	Amyloid A4
2408	EST00244	S	Amyloid A4
1880	EST01634	S	Axonal glycoprotein TAG-1
2004	EST01676	S	Cofilin
650	EST00642	S	Dilute (myosin heavy chain)
2217	EST01738	S	Gelation factor ABP-280
1885	EST01639	S	Histocompatibility antigen modifier 1
77	EST00257	S	Kinesin
SEQ ID	EST#	Group	Putative Identification
78	EST00258	S	Kinesin
2245	EST01748	S	Kinesin
313	EST00276	S	Lysosomal membrane glycoprotein 1 (LAMP-1)
223	EST00368	S	Microtubule-associated protein 1B
824	EST01865	S	Microtubule-associated protein 1B
2032	EST01683	S	Microtubule-associated protein 1B
2017	EST01678	S	Milk fat globule membrane protein
1567	EST02610	S	Neural cell adhesion molecule L1
506	EST01471	S	Neuraxin
2368	EST01389	S	Radial spoke protein 3
951	EST01960	S	Spectrin, beta
2089	EST01699	S	Sperm membrane protein
653	EST01512	S	Tubulin, alpha
311	EST00270	S	Tubulin, beta
594	EST01490	S	Tubulin, beta
757	EST01542	S	Tubulin, beta
1245	EST02274	S	Tubulin, beta
1589	EST02634	S	Tubulin, beta
1468	EST02505	S	Matrin 3

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1371	EST02402	S	Talin
1701	EST00853	S	Unc-104

Group Key: M: Metabolic, R: Regulatory, S: Structural

Table 11: Thirteen-Class Functional Groupings of ESTs

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
208	EST00250	CS	60K filarial antigen
2320	EST01784	CS	60K filarial antigen
1965	EST01664	CS	Amyloid A4
2068	EST01694	CS	Amyloid A4
2408	EST00244	CS	Amyloid A4
1880	EST01634	CS	Axonal glycoprotein TAG-1
1885	EST01639	CS	Histocompatibility antigen modifier 1
313	EST00276	CS	Lysosomal membrane glycoprotein 1 (LAMP-1)
2017	EST01678	CS	Milk fat globule membrane protein
1567	EST02610	CS	Neural cell adhesion molecule L1
2368	EST01389	CS	Radial spoke protein 3
2089	EST01699	CS	Sperm membrane protein
1277	EST02306	DC	Bib protein
188	EST00256	DC	Enhancer of split
43	EST00371	DC	Maternal G10 protein
1704	EST01580	DC	Myeloid differentiation primary response gene MyD1
227	EST00259	DC	Notch/Xotch
952	EST01961	DC	Notch/Xotch
346	EST01828	DC	Orthodentical homeotic protein
1408	EST02442	DC	Seven in absentia
97	EST00289	EM	Aconitase
310	EST00377	EM	Fo ATPase beta subunit, mitochondrial
485	EST01466	KP	Calmodulin-dependent protein kinase, type II, beta
993	EST02007	KP	Kinase 5 protein
1069	EST02087	KP	Protein kinase C, zeta
1933	EST01650	KP	Protein phosphatase 2A beta subunit
202	EST00298	KP	Protein-tyrosine phosphatase LRP
1348	EST02378	KP	cAMP-dependent protein kinase inhibitor
2302	EST01779	OG	Discs-large tumor suppressor
2353	EST01806	OG	Prohibitin
1478	EST02515	OG	Rab5
300	EST00232	OG	Transforming protein (dbl)
37	EST00038	OG	ras p21-like small GTP-binding protein (smg GDS)
102	EST00248	OG	rho H12/ ARH12
1834	EST01620	OM	AMP deaminase, brain
691	EST00675	OM	Alcohol dehydrogenase
396	EST01443	OM	CDPdiacylglycerol-serine O-phosphatidyltransferase
2192	EST01257	OM	Diacylglycerol kinase, lymphocyte
1441	EST02477	OM	Diamine acetyltransferase
2289	EST01325	OM	Fatty acid synthase
1020	EST02034	OM	Glutaminase
2326	EST01791	OM	Inositol-1,4,5-trisphosphate 3-kinase
1427	EST02463	OM	Long-chain-fatty-acid-CoA ligase
2226	EST01744	OM	NAD(P)+ transhydrogenase (B-specific)
1566	EST02609	OM	Neutrophil oxidase factor
1681	EST01573	OM	Nucleoside diphosphate kinase

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
2254	EST01751	OM	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase
1654	EST01572	OM	Protochlorophyllide reductase
2073	EST01697	OM	Succinate dehydrogenase flavoprotein
2138	EST01715	OM	Succinate dehydrogenase flavoprotein
1771	EST01601	OM	Thiosulfate sulfurtransferase (rhodanese)
2173	EST01724	PI	Lon protease
2297	EST01775	PI	Prohormone cleavage enzyme
9	EST00376	PI	Prolyl endopeptidase
1726	EST01588	PI	XPR2 alkaline extracellular protease
1147	EST02169	PP	Tyrosine kinase
2282	EST01764	RT	Lamin B receptor
189	EST00282	RT	trkB
251	EST00370	SC	Actin, other
2146	EST01218	SC	Actin, other
248	EST00271	SC	Actinin, alpha
891	EST01891	SC	Actinin, alpha
1500	EST02538	SC	Actinin, alpha
132	EST00110	SC	Agrin
1852	EST01625	SC	Agrin
2004	EST01676	SC	Cofilin
650	EST00642	SC	Dilute (myosin heavy chain)
2217	EST01738	SC	Gelation factor ABP-280
77	EST00257	SC	Kinesin
78	EST00258	SC	Kinesin
2245	EST01748	SC	Kinesin
1468	EST02505	SC	Matrin 3
223	EST00368	SC	Microtubule-associated protein 1B
824	EST01865	SC	Microtubule-associated protein 1B
2032	EST01683	SC	Microtubule-associated protein 1B
506	EST01471	SC	Neuraxin
951	EST01960	SC	Spectrin, beta
1371	EST02402	SC	Talin
653	EST01512	SC	Tubulin, alpha
311	EST00270	SC	Tubulin, beta
594	EST01490	SC	Tubulin, beta
757	EST01542	SC	Tubulin, beta
1245	EST02274	SC	Tubulin, beta
1589	EST02634	SC	Tubulin, beta
1701	EST00853	SC	Unc-104
969	EST01982	ST	ADP-ribosylation factor 1
1126	EST02146	ST	Calbindin D28
1910	EST01645	ST	Calmodulin
161	EST00247	ST	MARCKS (myristoylated alanine-rich protein kinase)
769	EST00734	ST	MARCKS homolog
1386	EST02418	ST	MARCKS homolog
1931	EST01041	ST	cAMP-regulated phosphoprotein
1413	EST02447	ST	cAMP-specific phosphodiesterase
299	EST00249	ST	smg p25A GDP dissociation inhibitor

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
2092	EST01700	TP	Anion exchanger homolog AE3
1956	EST01663	TP	Ca <sup>2+</sup> -transporting ATPase 2
1039	EST02055	TP	Calcium channel
1667	EST00825	TP	Gamma-aminobutyric acid transporter
1412	EST02446	TP	Glutamate-aspartate carrier protein
913	EST01913	TT	Clathrin coat assembly protein AP50 homolog
1035	EST02051	TT	J1 protein
93	EST00287	TT	Processing enhancing protein
38	EST00374	TT	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	TT	Ribosomal protein L18a
1856	EST01627	TT	Ribosomal protein L1a
1974	EST01667	TT	Ribosomal protein L3
301	EST00300	TT	Ribosomal protein L30
22	EST00301	TT	Ribosomal protein S10
2402	EST01826	TT	Ribosomal protein S10
463	EST01459	TT	Ribosomal protein YL10
2121	EST01711	TT	Valine-tRNA ligase
1332	EST02362	TX	GA binding protein, beta subunit
1229	EST02258	TX	KUP protein
1395	EST02429	TX	Nuclear factor 1-like protein (NF1)
187	EST00152	TX	Wilm's tumor-related protein
249	EST00275	TX	Zinc Finger Proteins
413	EST01446	TX	Zinc Finger Proteins
469	EST01460	TX	Zinc Finger Proteins
833	EST01560	TX	Zinc Finger Proteins
1230	EST02259	TX	Zinc finger proteins
1496	EST02534	TX	Zinc finger proteins
2324	EST01352	TX	Zinc Finger Proteins

Group Key: CS: Cell Surface, DC: Developmental Control, EM: Energy Metabolism, KP: Kinases and Phosphatases, OG: Oncogenes, OM: Other Metabolism, PI, Peptidases and Peptidase Inhibitors, RT: Receptors, SC: Structural and Cytoskeletal, ST: Signal Transduction, TP: Transporters, TT: Transcription, Translation, and Subcellular Localization, TX: Transcription Factors.

## EXAMPLE 11

cDNA Libraries Generated From Specific Genomic DNA  
by Exon Expression & Amplification

5 Exon amplification was used to express potential exons from genomic DNA in a recombinant vector that contains some of the signals necessary for splicing. If an exon is present in the proper orientation in the vector, that exon will be  
10 spliced in a mammalian cell and will become part of the mRNA of that cell. The exon splice-product can be purified from other mRNA in the cell by conversion of the mRNA to cDNA and selective amplification of the recombinant splice-product cDNAs. Cosmid DNA from human chromosome 19q13.3 was digested  
15 with BamHI or BamHI/BglIII restriction enzymes. The fragments generated were collected and size specifically cloned into an expression vector (Buckler, et al. *Proc. Nat'l. Acad. Sci. USA*, 88:4005-4009 (1991)). After transfection by electroporation of these constructs into COS cells, RNA  
20 transcripts were generated using the SV40 early promoter and a polyadenylation signal derived from SV40 both present in the expression vector. When a fragment of genomic DNA contains an entire exon with flanking intron sequence in the sense orientation, the exon should be retained in the mature  
25 poly(A)+ cytoplasmic RNA. Therefore, the mRNA was used as template for cDNA synthesis using reverse transcriptase and vector-priming. Subsequently, the cDNAs were amplified by vector-priming using PCR. A fraction of this first PCR product was reamplified using internal vector-primers  
30 containing terminal cloning sites. These products were end-repaired with T4 DNA polymerase, digested with the appropriate restriction enzymes, gel purified and cloned into pBluescript vectors. The constructs were transfected into XL1-Blue competent cells and plated on LB/X-gal/IPTG/ampicillin plates. White colonies were selected and  
35 expanded to prepare DNA templates as described in Example 2.

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When multiple cosmids or YAC clones were used as the source DNA, a pool of specific expressed exons was obtained as a cDNA library. The EST/cDNAs sequenced from this specific library are disclosed herein as SEQ ID NOS: 2412-2417.

5

**EXAMPLE 12****PCR Amplification from Predicted Exons**

10 Computational analyses can be applied to genomic DNA sequences to predict protein coding regions. The coding region prediction program CRM (E. Uberbacher and R. Mural, *Proc. Natl. Acad. Sci. USA* 88:11261-5 (1991)) finds open reading frames and classifies them according to their probability of being coding regions. These regions are subsequently examined using the GM program (C. Fields and C. Soderlund, *Comp. Applic. Biosci.* 6: 263, 1990), which predicts intron-exon structure. PCR primers are then designed to amplify the predicted exons and used to test human cDNA libraries (for example, fetal brain or placental libraries) for the presence of these putative exons using a PCR assay.

25 This strategy has been successfully applied in two large scale genomic sequencing projects, the Huntington's locus of human chromosome 4p16.3 (McCombie, et al., submitted) and human chromosome locus 19q13.3 (Martin-Gallardo, et al., submitted). Sequences from eleven predicted exons from chromosome 4 were present in tested cDNA libraries, indicating that this region has at least two and probably three expressed genes. In one case, the method resulted in an amplification product which spanned two predicted exons. (SEQ ID NO: 2411.) When sequenced, this PCR product indicated the presence of the two exons from which the primers were initially chosen, as well as an intervening exon which was also predicted by the CRM program, but not the intervening genomic sequences. In a similar fashion, the presence of the two predicted genes in the chromosome 19

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sequence was confirmed by sequencing PCR products. SEQ ID NO 2410, includes a partial exon of one of these genes.

### EXAMPLE 13

#### 5                    Complete Sequence of EST Clone Inserts

There are a number of methods known to those with skill in the art of molecular biology, to obtain sequence information from the cDNAs corresponding to the EST sequences. Procedures for these methods are provided in 10 Basic Methods in Molecular Biology (David et al. *supra*). One way to acquire more information about the cDNA from which an EST was derived is to sequence the remainder of the cDNA clone. The complete sequence of the inserts of four EST clones (representing SEQ ID NOs 188, 189, 223, and 227) was 15 determined using Exonuclease III deletions. Briefly, EST clones were digested with the restriction enzymes SalI and KpnI or PstI and BamHI (for deletions from the Forward primer and Reverse primer ends of the insert, respectively). The 20 KpnI and PstI enzymes leave 3' sticky ends following digestion, which Exonuclease III is unable to bind. This results in unidirectional deletions into the cDNA insert leaving the vector sequence undisturbed. After addition of Exonuclease III to the Forward and Reverse deletion reactions, aliquots of the reaction were removed at defined 25 time intervals and the reaction was stopped to prevent further deletion. S1 nuclease and Klenow DNA polymerase were added to create blunt ended fragments suitable for ligation.

Samples for each time point was purified by 30 electrophoresis through an agarose gel and religated. Two to four representative clones from each time point in each direction were sequenced to give between 200 and 400 base pairs of sequence data. Careful selection of deletion conditions and time points allow a deletion series of 35 approximately 100-200 base pairs difference in length at each consecutive time point. Sequence fragments were reassembled into a redundant contiguous sequence using the INHERIT

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software from Applied Biosystems, Inc. (Foster City, CA). In this way, the complete insert from these four cDNA clones was sequenced on both strands to an average redundancy between three and four (each base was sequenced between three and four times, on average). Those complete insert sequences are disclosed herein as SEQ ID 2418, 2419, 2420, and 2421, corresponding to original ESTs with SEQ ID 223, 189, 227, and 188, respectively.

#### EXAMPLE 14

##### Determining Reading Frame, Orientation, Coding Regions: ESTs and Complete cDNA Sequences

Once the complete cDNA sequence has been determined in accordance with Example 13, the reading frame, orientation, and coding regions are determined by computer techniques. (The complete coding region is considered to be the largest open reading frame from a methionine to a stop codon.)

Specifically, the CRM program on the GRAIL server is used as explained in Example 9 to determine probable coding regions. This information is supplemented by location of start and stop codons. Where possible, the results of the CRM analysis are validated by comparison of the cDNA sequence to known sequences using database matching, in accordance with Examples 3 and 4. If a match of 50% (or even less) is found in any particular reading frame and orientation, this serves to verify corresponding CRM results. Alternatively, database matches can be used to determine reading frame and orientation without use of the CRM program. Of course, if the cDNA is derived from a directional library, the probable orientation is already known.

#### EXAMPLE 15

##### Preparation of PCR Primers and Amplification of DNA

The EST sequences and the corresponding cDNA sequences and genomic sequences may be used, in accordance with the

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present invention, to prepare PCR primers for a variety of applications. The PCR primers are preferably at least 15 bases, and more preferably at least 18 bases in length. The procedure of Example 5 is repeated using the desired EST, or  
5 using the corresponding cDNA or genomic DNA sequence from Example 13. It is preferred that the primer pairs have approximately the same G/C ratio, so that melting temperatures are approximately the same. When screening cDNA, introns are of no concern; however, when screening  
10 genomic DNA, primers should be selected to avoid reading across introns, which usually are too large to amplify. The PCR primers and amplified DNA of this Example find use in the Examples that follow.

15

**EXAMPLE 16****Forensic Matching by DNA Sequencing**

20 In one exemplary method, DNA samples are isolated from forensic specimens of, for example, hair, semen, blood or skin cells by conventional methods. A panel of PCR primers derived from a number of the sequences of Example 1, 2, 11, 12 and/or 13 is then utilized in accordance with Example 12  
25 to obtain DNA of approximately 100-200 bases in length from the forensic specimen. Corresponding sequences are obtained from a suspect. Each of these identification DNAs is then sequenced, and a simple database comparison determines the differences, if any, between the sequences from the suspect  
30 and those from the sample. Statistically significant differences between the suspect's DNA sequences and those from the sample conclusively prove a lack of identity. This lack of identity can be proven, for example, with only one sequence. Identity, on the other hand, should be  
35 demonstrated with a large number of sequences, all matching. Preferably, a minimum of 50 statistically identical sequences

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of 100 bases in length are used to prove identity between the suspect and the sample.

#### EXAMPLE 17

5

##### Positive Identification by DNA Sequencing

The technique outlined in the previous example may also be used on a larger scale to provide a unique fingerprint-type identification of any individual. In this technique, primers are prepared from a large number of sequences from Examples 1, 2, 11, 12 and/or 13. Preferably, 20 to 50 different primers are used. These primers are used to obtain a corresponding number of PCR-generated DNA segments from the individual in question in accordance with Example 15. Each of these DNA segments is sequenced, using the methods set forth in Example 1. The database of sequences generated through this procedure uniquely identifies the individual from whom the sequences were obtained. The same panel of primers may then be used at any later time to absolutely correlate tissue or other biological specimen with that individual.

20

#### EXAMPLE 18

25

##### Southern Blot Forensic Identification

The procedure of Example 17 is repeated to obtain a panel of from 10 to 2000 amplified sequences from an individual and a specimen. This PCR-generated DNA is then digested with one or a combination of, preferably, four base specific restriction enzymes. Such enzymes are commercially available and known to those of skill in the art. After digestion, the resultant gene fragments are size separated in multiple duplicate wells on an agarose gel and transferred to nitrocellulose using Southern blotting techniques well known to those with skill in the art. For a review of Southern

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blotting see Davis et al. (Basic Methods in Molecular Biology, 1986, Elsevier Press. pp 62-65).

5 A panel of ESTs or complete cDNA sequences from Examples 1, 2, and/or 13, or fragments thereof of at least 15 bases, are radioactively or colorimetrically labeled using end-labeled oligonucleotides derived from the ESTs, nick translated sequences or the like using methods known in the art and hybridized to the Southern blot using techniques known in the art (Davis et al., supra). Preferably, at least 10 5 to 10 of these labeled probes are used, and more preferably at least about 20 or 30 are used to provide a unique pattern. The resultant bands appearing from the hybridization of a large sample of ESTs will be a unique identifier. Since the restriction enzyme cleavage will be different for every 15 individual, the band pattern on the Southern blot will also be unique. Increasing the number of EST probes will provide a statistically higher level of confidence in the identification since there will be an increased number of sets of bands used for identification.

20

#### EXAMPLE 19

##### Dot Blot Identification Procedure

25 Another technique for identifying individuals using the sequences disclosed herein utilizes a dot blot hybridization technique.

30 Genomic DNA is isolated from nuclei of subject to be identified. Oligonucleotide probes of approximately 30 bp in length were synthesized that correspond to sequences from the ESTs. The probes are used to hybridize to the genomic DNA through conditions known to those in the art. The oligonucleotides are end labelled with  $P^{32}$  using polynucleotide kinase (Pharmacia). Dot Blots are created by 35 spotting about 50 ng cDNA of at least 10, preferably at least 50 sequences corresponding to a variety of the Sequence ID

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5        NOs provided in Table 7 onto nitrocellulose or the like using  
a vacuum dot blot manifold (BioRad, Richmond California).  
The nitrocellulose filter containing the EST clone sequences  
is baked or UV linked to the filter, prehybridized and  
10        hybridized with labeled probe using techniques known in the  
art (Davis et al. supra). The <sup>32</sup>P labeled DNA fragments are  
sequentially hybridized with successively stringent  
conditions to detect minimal differences between the 30 bp  
15        sequence and the DNA. Tetramethylammonium chloride is useful  
for identifying clones containing small numbers of nucleotide  
mismatches (Wood et al., Proc. Natl. Acad. Sci. USA  
82(6):1585-1588 (1985) which is hereby incorporated by  
reference. A unique pattern of dots distinguishes one  
individual from another individuals.

#### EXAMPLE 20

##### Alternative "Fingerprint" Identification Technique

20        EST sequences and the corresponding complete cDNA  
sequences can be used to create a unique fingerprint for an  
individual. Thus pools of EST sequences can be used in  
forensics, paternity suits or the like to differentiate one  
individual from another.

25        Entire EST sequences can be used; similarly  
oligonucleotides can be prepared from EST sequences. In this  
example, 20-mer oligonucleotides are prepared from 200 EST  
sequences using commercially available oligonucleotide  
services such as Oligos Etc., Wilsonville, OR. Patient cell  
30        samples are processed for DNA using techniques well known to  
those with skill in the art. The nucleic acid is digested  
with restriction enzymes EcoRI and XbaI. Following  
digestion, samples are applied to wells for electrophoresis.  
The procedure, as known in the art, may be modified to  
35        accommodate polyacrylamide electrophoresis, however in this  
example, samples containing 5 ug of DNA are loaded into wells

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and separated on 0.8% agarose gels. The gels are transferred using Southern blotting techniques onto nitrocellulose.

10 ng of each of the oligos are pooled and end-labeled with  $P^{32}$ . The nitrocellulose is prehybridized with blocking solution and hybridized with the labeled probes. Following hybridization and washing, the nitrocellulose filter is exposed to X-Omat AR X-ray film. The resulting hybridization pattern will be unique for each individual.

It is additionally contemplated within this example that the representative number of EST sequences can be varied for additional accuracy or clarity.

#### EXAMPLE 21

##### Identification of genes associated with hereditary diseases

This example illustrates an approach useful for the association of EST sequences with particular phenotypic characteristics. In this example, a particular EST is used as a test probe to associate that EST with a particular phenotypic characteristic.

An EST clone corresponding to EST01643, (SEQ ID NO 1894) maps to a gene rich region of chromosome 6. EST clone HHCMH89, from which EST01643 was derived, was mapped to chromosome 6p21 by Dr. Julie Korenberg of UCLA/Cedar Sinai Hospital using FISH. A search of Mendelian Inheritance in Man (supra) revealed 6p21 to be a very gene rich region containing several known genes and several diseases for which genes have not been identified. The cDNA encoded by EST clone HHCMH89 thus becomes an immediate candidate for each of these genetic diseases.

Cells from patients with these diseases are isolated and expanded in culture. PCR primers from the EST sequences are used to screen genomic DNA and RNA or cDNA from the patients. ESTs that are not amplified in the patients can be positively associated with a particular disease by further analysis.

## EXAMPLE 22

Identification of a gene associated with  
Angelman's disease

5

Angelman's disease (AD) is characterized by deletions on the long arm of chromosome 15 (15q11q13) (Williams et al. Am. J. Med. Genet. 32:339-345 (1989) hereby incorporated by reference). The symptoms of the disease include developmental delay, seizures, inappropriate laughter and ataxic movements. These symptoms suggest that the disorder is a neurologic deficiency. This prophetic example illustrates how ESTs, preferably obtained from a cDNA library from human brain, may be used in identifying the defective gene or genes associated with Angelman's Disease. (The example is based on analogous work with genomic DNA, rather than cDNA and ESTs, in identifying the genetic defect associated with Angelman's Disease.) This example also illustrates how EST sequences may generally be used for identifying gene sequences associated with an inherited disease that is mapped to a chromosome location.

ESTs are screened using techniques described in Example 5 and Example 7 to identify those ESTs that localize to the long arm of chromosome 15 and preferably localize to chromosome 15 bands 15q11q13 from normal patients. ESTs that bind to the long arm of chromosome 15 are hybridized to chromosome 15 from AD patients. These studies are preferably performed using either fluorescence in situ hybridization or using somatic cell hybrids that contain fragments from the long arm of chromosome 15 from AD patients. Those chromosome 15-specific ESTs that do not map to chromosome 15 from AD patients are useful as markers for Angelman's Disease and can be incorporated into diagnostics for genetic screening. These ESTs are associated with chromosome deletions present in Angelman's disease. Identification of the gene associated with these AD negative ESTs and an analysis of the polypeptides encoded by the genes

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from normal patients is essential for providing gene or other therapies for AD patients.

Genetic diseases are not always accompanied by gene deletions. Therefore, it is also important to use the ESTs that bind to bands 15q11q13 from AD patients as tools to identify the polymorphisms present within the disease population. Restriction fragment length polymorphism (RFLP) analysis can be performed on patient cells from AD disease or from somatic cell hybrids created using the long arm of chromosome 15. For a review of RFLP techniques see Donis-Keller et al. (Cell 51:319-337 (1987) hereby incorporated by reference). DNA is isolated from the somatic cell lines or from cells from AD patients. The DNA is digested with one or more restriction enzymes according to techniques of Donis-Keller et al. The resulting fragments are separated by gel electrophoresis, denatured, transferred to nitrocellulose and hybridized with the selected radio-labeled ESTs that localize to the region of interest. The autoradiographic pattern is compared both to a number of AD patients and to normal patients. Common patterns of EST hybridization in AD patients that are not present in normal patients indicates that the genes associated with these ESTs are candidate genes affected by AD.

cDNA libraries are prepared from the somatic cell hybrids from AD patients. Libraries are prepared using Lambda Zap II Library Kits (Stratagene, La Jolla, California) or other commercially available library kits. The ESTs of interest are used as probes to identify those bacterial colonies carrying genes corresponding to the EST probes. Positive clones are sequenced and the sequences are compared to homologous gene sequences derived from normal patients.

Alterations, including deletions and substitutions, within gene sequences, associated with bands 15q11q13, are thus positively identified and associated with AD disease. Wagstaff et al. were able to identify deletions and substitutions in sequences encoding the GABA<sub>A</sub> receptor

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protein subunit from patients with Angelman's disease (*Am. J. Hum. Genet.* 49:330-337, (1991)). It is likely that other genes will additionally be associated with the disease.

5

**EXAMPLE 23****Preparation and Use of Antisense Oligonucleotides**

10 Antisense RNA molecules are known to be useful for regulating translation within the cell. Antisense RNA molecules can be produced from EST sequences or from the corresponding gene sequences. These antisense molecules can be used as diagnostic probes to determine whether or not a particular gene is expressed in a cell. Similarly, the  
15 antisense molecules can be used as a therapeutic to regulate gene expression once the EST is associated with a particular disease (see Example 22).

The antisense molecules are obtained from a nucleotide sequence by reversing the orientation of the coding region  
20 with regard to the promoter. Thus, the antisense RNA is complementary to the corresponding mRNA. For a review of antisense design see Green et al., *Ann. Rev. Biochem.* 55:569-597 (1986), which is hereby incorporated by reference. The antisense sequences can contain modified sugar phosphate  
25 backbones to increase stability and make them less sensitive to RNase activity. Examples of the modifications are described by Rossi et al., *Pharmacol. Ther.* 50(2):245-254, (1991).

30 Antisense molecules are introduced into cells that express the gene corresponding to the EST of interest in culture. In a preferred application of this invention, the polypeptide encoded by the gene is first identified, so that the effectiveness of antisense inhibition on translation can be monitored using techniques that include but are not  
35 limited to antibody-mediated tests such as RIAs and ELISA, functional assays, or radiolabelling. The antisense molecule is introduced into the cells by diffusion or by transfection

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procedures known in the art. The molecules are introduced onto cell samples at a number of different concentrations preferably between  $1 \times 10^{-10} \text{M}$  to  $1 \times 10^{-4} \text{M}$ . Once the minimum concentration that can adequately control translation is identified, the optimized dose is translated into a dosage suitable for use in vivo. For example, an inhibiting concentration in culture of  $1 \times 10^{-7}$  translates into a dose of approximately 0.6 mg/kg bodyweight. Levels of oligonucleotide approaching 100 mg/kg bodyweight or higher may be possible after testing the toxicity of the oligonucleotide in laboratory animals.

The antisense can be introduced into the body as a bare or naked oligonucleotide, oligonucleotide encapsulated in lipid, oligonucleotide sequence encapsidated by viral protein, or as oligonucleotide contained in an expression vector such as those described in Example 25. The antisense oligonucleotide is preferably introduced into the vertebrate by injection. It is additionally contemplated that cells from the vertebrate are removed, treated with the antisense oligonucleotide, and reintroduced into the vertebrate. It is further contemplated that the antisense oligonucleotide sequence is incorporated into a ribozyme sequence to enable the antisense to bind and cleave its target. For technical applications of ribozyme and antisense oligonucleotides see Rossi et al.

#### EXAMPLE 24

##### Preparation and use of Triple Helix Probes

Triple helix oligonucleotides are used to inhibit transcription from a genome. They are particularly useful for studying alterations in cell activity as it is associated with a particular gene. The EST sequences or complete sequences of the present invention or, more preferably, a portion of those sequences, can be used to inhibit gene

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expression in individuals having diseases associated with a particular gene. Similarly, a portion of the EST or corresponding gene sequence can be used to study the effect of inhibiting transcription of a particular gene within a cell. Traditionally, homopurine sequences were considered the most useful. However, homopyrimidine sequences can also inhibit gene expression. Thus, both types of sequences from either the EST or from the gene corresponding to the EST are contemplated within the scope of this invention. Homopyrimidine oligonucleotides bind to the major groove at homopurine:homopyrimidine sequences. As an example, 10-mer to 20-mer homopyrimidine sequences from the ESTs can be used to inhibit expression from homopurine sequences. SEQ ID NOs such as 282, 888, 719, 670, 994, 240, 873 and 761 contain homopyrimidine 15-mers. Moreover the natural (beta) anomers of the oligonucleotide units can be replaced with alpha anomers to render the oligonucleotide more resistant to nucleases. Further, an intercalating agent such as ethidium bromide, or the like, can be attached to the 3' end of the alpha oligonucleotide to stabilize the triple helix. For information on the generation of oligonucleotides suitable for triple helix formation see Griffin et al. (*Science* 245:967-971 (1989), which is hereby incorporated by this reference).

The oligonucleotides may be prepared on an oligonucleotide synthesizer or they may be purchased commercially from a company specializing in custom oligonucleotide synthesis. The sequences are introduced into cells in culture using techniques known in the art that include but are not limited to calcium phosphate precipitation, DEAE-Dextran, electroporation, liposome-mediated transfection or native uptake. Treated cells are monitored for altered cell function. These cell functions are predicted based upon the homologies of the gene, corresponding to the EST from which the oligonucleotide was derived, with known genes sequences that have been associated

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with a particular function. The cell functions can also be predicted based on the presence of abnormal physiologies within cells derived from individuals with a particular inherited disease, particularly when the EST is associated with the disease using techniques described in Example 22.

#### EXAMPLE 25

##### Gene expression from DNA Sequences Corresponding to ESTs

10

A gene sequence of the present invention coding for all or part of a human gene product is introduced into an expression vector using conventional technology. (Techniques to transfer cloned sequences into expression vectors that direct protein translation in mammalian, yeast, insect or bacterial expression systems are well known in the art.) Commercially available vectors and expression systems are available from a variety of suppliers including Stratagene (La Jolla, California), Promega (Madison, Wisconsin), and Invitrogen (San Diego, California). If desired, to enhance expression and facilitate proper protein folding, the codon context and codon pairing of the sequence may be optimized for the particular expression organism, as explained by Hatfield, et al., U.S. Patent No. 5,082,767, incorporated herein by this reference.

25

The following is provided as one exemplary method to generate polypeptide from cloned cDNA sequences. The cDNA from the EST of interest is sequenced to identify the methionine initiation codon for the gene and the poly A sequence. If the cDNA lacks a poly A sequence, this sequence can be added to the construct by, for example, splicing out the Poly A sequence from pSG5 (Stratagene) using BglI and SalI restriction endonuclease enzymes and incorporating it into the mammalian expression vector pXT1 (Stratagene). pXT1 contains the LTRs and a portion of the gag gene from Moloney Murine Leukemia Virus. The position of the LTRs in the construct allow efficient stable transfection. The vector

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includes the Herpes Simplex Thymidine Kinase promoter and the selectable neomycin gene. The cDNA is obtained by PCR from the bacterial vector using oligonucleotide primers complementary to the cDNA and containing restriction endonuclease sequences for Pst I incorporated into the 5' primer and BglII at the 5' end of the corresponding cDNA 3' primer, taking care to ensure that the cDNA is positioned inframe with the poly A sequence. The purified fragment obtained from the resulting PCR reaction is digested with PstI, blunt ended with an exonuclease, digested with Bgl II, purified and ligated to pXT1, now containing a poly A sequence and digested BglII.

The ligated product is transfected into mouse NIH 3T3 cells using Lipofectin (Life Technologies, Inc., Grand Island, New York) under conditions outlined in the product specification. Positive transfectants are selected after growing the transfected cells in 600ug/ml G418 (Sigma, St. Louis, Missouri). The protein is preferably released into the supernatant. However if the protein has membrane binding domains, the protein may additionally be retained within the cell or expression may be restricted to the cell surface.

Since it may be necessary to purify and locate the transfected product, synthetic 15-mer peptides synthesized from the predicted cDNA sequence are injected into mice to generate antibody to the polypeptide encoded by the cDNA.

If antibody production is not possible, the cDNA sequence is additionally incorporated into eukaryotic expression vectors and expressed as a chimeric with, for example,  $\beta$ -globin. Antibody to  $\beta$ -globin is used to purify the chimeric. Corresponding protease cleavage sites engineered between the  $\beta$ -globin gene and the cDNA are then used to separate the two polypeptide fragments from one another after translation. One useful expression vector for generating  $\beta$ -globin chimerics is pSG5 (Stratagene). This vector encodes rabbit  $\beta$ -globin. Intron II of the rabbit  $\beta$ -globin gene facilitates splicing of the expressed transcript,

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and the polyadenylation signal incorporated into the construct increases the level of expression. These techniques as described are well known to those skilled in the art of molecular biology. Standard methods are published in methods texts such as Davis et al. and many of the methods are available from the technical assistance representatives from Stratagene, Life Technologies, Inc., or Promega. Polypeptide may additionally be produced from either construct using in vitro translation systems such as In vitro Express™ Translation Kit (Stratagene).

#### Example 26

##### Production of an Antibody to a Human Protein

Substantially pure protein or polypeptide is isolated from the transfected or transformed cells as described in Example 25. Concentration of protein in the final preparation is adjusted, for example, by concentration on an Amicon filter device, to the level of a few micrograms/ml. Monoclonal or polyclonal antibody to the protein can then be prepared as follows:

##### A. Monoclonal Antibody Production by Hybridoma Fusion

Monoclonal antibody to epitopes of any of the peptides identified and isolated as described can be prepared from murine hybridomas according to the classical method of Kohler, G. and Milstein, C., *Nature* 256:495 (1975) or derivative methods thereof. Briefly, a mouse is repetitively inoculated with a few micrograms of the selected protein over a period of a few weeks. The mouse is then sacrificed, and the antibody producing cells of the spleen isolated. The spleen cells are fused by means of polyethylene glycol with mouse myeloma cells, and the excess unfused cells destroyed by growth of the system on selective media comprising aminopterin (HAT media). The successfully fused cells are diluted and aliquots of the dilution placed in wells of a

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microtiter plate where growth of the culture is continued. Antibody-producing clones are identified by detection of antibody in the supernatant fluid of the wells by immunoassay procedures, such as Elisa, as originally described by Engvall, E., *Meth. Enzymol.* 70:419 (1980), and derivative methods thereof. Selected positive clones can be expanded and their monoclonal antibody product harvested for use. Detailed procedures for monoclonal antibody production are described in Davis, L. et al. **Basic Methods in Molecular Biology** Elsevier, New York. Section 21-2.

**B. Polyclonal Antibody Production by Immunization**

Polyclonal antiserum containing antibodies to heterogenous epitopes of a single protein can be prepared by immunizing suitable animals with the expressed protein described above, which can be unmodified or modified to enhance immunogenicity. Effective polyclonal antibody production is affected by many factors related both to the antigen and the host species. For example, small molecules tend to be less immunogenic than other and may require the use of carriers and adjuvant. Also, host animals vary in response to site of inoculations and dose, with both inadequate or excessive doses of antigen resulting in low titer antisera. Small doses (ng level) of antigen administered at multiple intradermal sites appears to be most reliable. An effective immunization protocol for rabbits can be found in Vaitukaitis, J. et al. *J. Clin. Endocrinol. Metab.* 33:988-991 (1971).

Booster injections can be given at regular intervals, and antiserum harvested when antibody titer thereof, as determined semi-quantitatively, for example, by double immunodiffusion in agar against known concentrations of the antigen, begins to fall. See, for example, Ouchterlony, O. et al., Chap. 19 in: **Handbook of Experimental Immunology** D. Wier (ed) Blackwell (1973). Plateau concentration of antibody is usually in the range of 0.1 to 0.2 mg/ml of serum (about 12  $\mu$ M). Affinity of the antisera for the antigen is

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determined by preparing competitive binding curves, as described, for example, by Fisher, D., Chap. 42 in: **Manual of Clinical Immunology**, 2d Ed. (Rose and Friedman, eds.) Amer. Soc. For Microbiol., Washington, D.C. (1980).

5       Antibody preparations prepared according to either protocol are useful in quantitative immunoassays which determine concentrations of antigen-bearing substances in biological samples; they are also used semi-quantitatively or qualitatively to identify the presence of antigen in a  
10       biological sample.

#### EXAMPLE 27

##### Identification of Tissue Types or Cell Species by Means of Labeled Tissue Specific Antibodies

15       Identification of specific tissues is accomplished by the visualization of tissue specific antigens by means of antibody preparations according to Example 26 which are conjugated, directly or indirectly to a detectable marker.  
20       Selected labeled antibody species bind to their specific antigen binding partner in tissue sections, cell suspensions, or in extracts of soluble proteins from a tissue sample to provide a pattern for qualitative or semi-qualitative interpretation.

25       Antisera for these procedures must have a potency exceeding that of the native preparation, and for that reason, antibodies are concentrated to a mg/ml level by isolation of the gamma globulin fraction, for example, by ion-exchange chromatography or by ammonium sulfate  
30       fractionation. Also, to provide the most specific antisera, unwanted antibodies, for example to common proteins, must be removed from the gamma globulin fraction, for example by means of insoluble immunoabsorbents, before the antibodies are labeled with the marker. Either monoclonal or  
35       heterologous antisera is suitable for either procedure.

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**A. Immunohistochemical Techniques**

Purified, high-titer antibodies, prepared as described above, are conjugated to a detectable marker, as described, for example, by Fudenberg, H., Chap. 26 in: **Basic & Clinical Immunology**, 3rd Ed. Lange, Los Altos, California (1980) or Rose, N. et al., Chap. 12 in: **Methods in Immunodiagnosis**, 2d Ed. John Wiley & Sons, New York (1980).

A fluorescent marker, either fluorescein or rhodamine, is preferred, but antibodies can also be labeled with an enzyme that supports a color producing reaction with a substrate, such as horseradish peroxidase. Markers can be added to tissue-bound antibody in a second step, as described below. Alternatively, the specific antitissue antibodies can be labeled with ferritin or other electron dense particles, and localization of the ferritin coupled antigen-antibody complexes achieved by means of an electron microscope. In yet another approach, the antibodies are radiolabeled, with, for example  $^{125}\text{I}$ , and detected by overlaying the antibody treated preparation with photographic emulsion.

Preparations to carry out the procedures can comprise monoclonal or polyclonal antibodies to a single gene copy or protein, identified as specific to a tissue type, for example, brain tissue, or antibody preparations to several antigenically distinct tissue specific antigens can be used in panels, independently or in mixtures, as required.

Tissue sections and cell suspensions are prepared for immunohistochemical examination according to common histological techniques. Multiple cryostat sections (about 4  $\mu\text{m}$ , unfixed) of the unknown tissue and known control, are mounted and each slide covered with different dilutions of the antibody preparation. Sections of known and unknown tissues should also be treated with preparations to provide a positive control, a negative control, for example, pre-immune sera, and a control for non-specific staining, for example, buffer.

Treated sections are incubated in a humid chamber for 30 min at room temperature, rinsed, then washed in buffer for 30-45 min. Excess fluid is blotted away, and the marker developed.

5        If the tissue specific antibody was not labeled in the first incubation, it can be labeled at this time in a second antibody-antibody reaction, for example, by adding fluorescein- or enzyme-conjugated antibody against the immunoglobulin class of the antiserum-producing species, for  
10        example, fluorescein labeled antibody to mouse IgG. Such labeled sera are commercially available.

15        The antigen found in the tissues by the above procedure can be quantified by measuring the intensity of color or fluorescence on the tissue section, and calibrating that signal using appropriate standards.

#### **B. Identification of Tissue Specific Soluble Proteins**

20        The visualization of tissue specific proteins and identification of unknown tissues from that procedure is carried out using the labeled antibody reagents and detection strategy as described for immunohistochemistry; however the sample is prepared according to an electrophoretic technique to distribute the proteins extracted from the tissue in an orderly array on the basis of molecular weight for detection.

25        A tissue sample is homogenized using a Virtis apparatus; cell suspensions are disrupted by Dounce homogenization or osmotic lysis, using detergents in either case as required to disrupt cell membranes, as is the practice in the art. Insoluble cell components such as nuclei, microsomes, and membrane fragments are removed by ultracentrifugation, and  
30        the soluble protein-containing fraction concentrated if necessary and reserved for analysis.

35        A sample of the soluble protein solution is resolved into individual protein species by conventional SDS polyacrylamide electrophoresis as described, for example, by Davis, L. et al., Section 19-2 in: **Basic Methods in Molecular Biology** (P. Leder, ed), Elsevier, New York (1986), using a

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range of amounts of polyacrylamide in a set of gels to resolve the entire molecular weight range of proteins to be detected in the sample. A size marker is run in parallel for purposes of estimating molecular weights of the constituent proteins. Sample size for analysis is a convenient volume of from 5-50  $\mu$ l, and containing from about 1 to 100  $\mu$ g protein. An aliquot of each of the resolved proteins is transferred by blotting to a nitrocellulose filter paper, a process that maintains the pattern of resolution. Multiple copies are prepared. The procedure, known as Western Blot Analysis, is well described in Davis, L. et al., (above) Section 19-3. One set of nitrocellulose blots is stained with Coomassie Blue dye to visualize the entire set of proteins for comparison with the antibody bound proteins. The remaining nitrocellulose filters are then incubated with a solution of one or more specific antisera to tissue specific proteins prepared as described in Example 26. In this procedure, as in procedure A above, appropriate positive and negative sample and reagent controls are run.

In either procedure A or B, a detectable label can be attached to the primary tissue antigen-primary antibody complex according to various strategies and permutations thereof. In a straightforward approach, the primary specific antibody can be labeled; alternatively, the unlabeled complex can be bound by a labeled secondary anti-IgG antibody. In other approaches, either the primary or secondary antibody is conjugated to a biotin molecule, which can, in a subsequent step, bind an avidin conjugated marker. According to yet another strategy, enzyme labeled or radioactive protein A, which has the property of binding to any IgG, is bound in a final step to either the primary or secondary antibody.

The visualization of tissue specific antigen binding at levels above those seen in control tissues to one or more tissue specific antibodies, prepared from the gene sequences identified from EST sequences, can identify tissues of unknown origin, for example, forensic samples, or

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differentiated tumor tissue that has metastasized to foreign bodily sites.

The entire contents of all references cited above are hereby incorporated by reference.

5        While the present invention has been described in some detail for purposes of clarity and understanding, one skilled in the art will appreciate that various changes in form and detail can be made without departing from the true scope of the invention.

10

#### VII. Correlation of EST and Clone Identifiers

15        The EST sequences of the present invention are identified herein by SEQ ID NO, and are identified in the GenBank database by a different number, are identified in the inventors' lab (and upcoming publications) by EST number, and clones have been submitted to the American Type Culture Collection (Rockville, Maryland USA) under clone names. Table 12 cross references those different numbers for the ESTs from cDNA, SEQ ID NOS 1-2409.

20        Certain Sequence ID NOS are excluded from some claims based on their homology to known non-human sequences (See Table 2).

Table 12. SEQ ID NO Cross References

SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone
1	EST000007	MG1959	HFA01	64	EST000066	M62010	HCC13	128	EST000252	M62191	HCC57	179	EST000321	M62254	HCC18	180	EST000135	M62076	HCC77
2	EST000009	MG1953	HFA05	66	EST000067	M62011	HCC18	179	EST000321	M62254	HCC18	180	EST000135	M62076	HCC77	179	EST000135	M62076	HCC77
3	EST000010	MG1961	HFA07	67	EST000067	M62011	HCC18	179	EST000321	M62254	HCC18	180	EST000135	M62076	HCC77	179	EST000135	M62076	HCC77
4	EST000011	MG1962	HFA08	68	EST000068	M62012	HCC22	130	EST000322	M62255	HCC66	131	EST000110	M62186	HCC66	132	EST000110	M62186	HCC66
5	EST000012	MG1963	HFA10	69	EST000068	M62012	HCC22	130	EST000322	M62255	HCC66	131	EST000110	M62186	HCC66	132	EST000110	M62186	HCC66
6	EST000013	MG1964	HFA11	70	EST000069	M62013	HCC23	131	EST000323	M62256	HCC67	132	EST000111	M62187	HCC67	133	EST000111	M62187	HCC67
7	EST000014	MG1965	HFA11	71	EST000070	M62014	HCC29	132	EST000324	M62257	HCC67	133	EST000111	M62187	HCC67	133	EST000111	M62187	HCC67
8	EST000015	MG1966	HFA26	72	EST000071	M62015	HCC31	133	EST000325	M62258	HCC67	134	EST000112	M62188	HCC67	134	EST000112	M62188	HCC67
9	EST000016	MG1967	HFA26	73	EST000072	M62016	HCC31	134	EST000326	M62259	HCC67	135	EST000113	M62189	HCC67	135	EST000113	M62189	HCC67
10	EST000017	MG1968	HFA23	74	EST000073	M62017	HCC40	135	EST000327	M62260	HCC67	136	EST000114	M62190	HCC67	136	EST000114	M62190	HCC67
11	EST000018	MG1969	HFA23	75	EST000074	M62018	HCC40	136	EST000328	M62261	HCC67	137	EST000115	M62191	HCC67	137	EST000115	M62191	HCC67
12	EST000019	MG1970	HFA23	76	EST000075	M62019	HCC42	137	EST000329	M62262	HCC67	138	EST000116	M62192	HCC67	138	EST000116	M62192	HCC67
13	EST000020	MG1971	HFA23	77	EST000076	M62020	HCC42	138	EST000330	M62263	HCC67	139	EST000117	M62193	HCC67	139	EST000117	M62193	HCC67
14	EST000021	MG1972	HFA23	78	EST000077	M62021	HCC42	139	EST000331	M62264	HCC67	140	EST000118	M62194	HCC67	140	EST000118	M62194	HCC67
15	EST000022	MG1973	HFA23	79	EST000078	M62022	HCC42	140	EST000332	M62265	HCC67	141	EST000119	M62195	HCC67	141	EST000119	M62195	HCC67
16	EST000023	MG1974	HFA23	80	EST000079	M62023	HCC42	141	EST000333	M62266	HCC67	142	EST000120	M62196	HCC67	142	EST000120	M62196	HCC67
17	EST000024	MG1975	HFA23	81	EST000080	M62024	HCC42	142	EST000334	M62267	HCC67	143	EST000121	M62197	HCC67	143	EST000121	M62197	HCC67
18	EST000025	MG1976	HFA23	82	EST000081	M62025	HCC42	143	EST000335	M62268	HCC67	144	EST000122	M62198	HCC67	144	EST000122	M62198	HCC67
19	EST000026	MG1977	HFA23	83	EST000082	M62026	HCC42	144	EST000336	M62269	HCC67	145	EST000123	M62199	HCC67	145	EST000123	M62199	HCC67
20	EST000027	MG1978	HFA23	84	EST000083	M62027	HCC42	145	EST000337	M62270	HCC67	146	EST000124	M62200	HCC67	146	EST000124	M62200	HCC67
21	EST000028	MG1979	HFA23	85	EST000084	M62028	HCC42	146	EST000338	M62271	HCC67	147	EST000125	M62201	HCC67	147	EST000125	M62201	HCC67
22	EST000029	MG1980	HFA23	86	EST000085	M62029	HCC42	147	EST000339	M62272	HCC67	148	EST000126	M62202	HCC67	148	EST000126	M62202	HCC67
23	EST000030	MG1981	HFA23	87	EST000086	M62030	HCC42	148	EST000340	M62273	HCC67	149	EST000127	M62203	HCC67	149	EST000127	M62203	HCC67
24	EST000031	MG1982	HFA23	88	EST000087	M62031	HCC42	149	EST000341	M62274	HCC67	150	EST000128	M62204	HCC67	150	EST000128	M62204	HCC67
25	EST000032	MG1983	HFA23	89	EST000088	M62032	HCC42	150	EST000342	M62275	HCC67	151	EST000129	M62205	HCC67	151	EST000129	M62205	HCC67
26	EST000033	MG1984	HFA23	90	EST000089	M62033	HCC42	151	EST000343	M62276	HCC67	152	EST000130	M62206	HCC67	152	EST000130	M62206	HCC67
27	EST000034	MG1985	HFA23	91	EST000090	M62034	HCC42	152	EST000344	M62277	HCC67	153	EST000131	M62207	HCC67	153	EST000131	M62207	HCC67
28	EST000035	MG1986	HFA23	92	EST000091	M62035	HCC42	153	EST000345	M62278	HCC67	154	EST000132	M62208	HCC67	154	EST000132	M62208	HCC67
29	EST000036	MG1987	HFA23	93	EST000092	M62036	HCC42	154	EST000346	M62279	HCC67	155	EST000133	M62209	HCC67	155	EST000133	M62209	HCC67
30	EST000037	MG1988	HFA23	94	EST000093	M62037	HCC42	155	EST000347	M62280	HCC67	156	EST000134	M62210	HCC67	156	EST000134	M62210	HCC67
31	EST000038	MG1989	HFA23	95	EST000094	M62038	HCC42	156	EST000348	M62281	HCC67	157	EST000135	M62211	HCC67	157	EST000135	M62211	HCC67
32	EST000039	MG1990	HFA23	96	EST000095	M62039	HCC42	157	EST000349	M62282	HCC67	158	EST000136	M62212	HCC67	158	EST000136	M62212	HCC67
33	EST000040	MG1991	HFA23	97	EST000096	M62040	HCC42	158	EST000350	M62283	HCC67	159	EST000137	M62213	HCC67	159	EST000137	M62213	HCC67
34	EST000041	MG1992	HFA23	98	EST000097	M62041	HCC42	159	EST000351	M62284	HCC67	160	EST000138	M62214	HCC67	160	EST000138	M62214	HCC67
35	EST000042	MG1993	HFA23	99	EST000098	M62042	HCC42	160	EST000352	M62285	HCC67	161	EST000139	M62215	HCC67	161	EST000139	M62215	HCC67
36	EST000043	MG1994	HFA23	100	EST000099	M62043	HCC42	161	EST000353	M62286	HCC67	162	EST000140	M62216	HCC67	162	EST000140	M62216	HCC67
37	EST000044	MG1995	HFA23	101	EST000100	M62044	HCC42	162	EST000354	M62287	HCC67	163	EST000141	M62217	HCC67	163	EST000141	M62217	HCC67
38	EST000045	MG1996	HFA23	102	EST000101	M62045	HCC42	163	EST000355	M62288	HCC67	164	EST000142	M62218	HCC67	164	EST000142	M62218	HCC67
39	EST000046	MG1997	HFA23	103	EST000102	M62046	HCC42	164	EST000356	M62289	HCC67	165	EST000143	M62219	HCC67	165	EST000143	M62219	HCC67
40	EST000047	MG1998	HFA23	104	EST000103	M62047	HCC42	165	EST000357	M62290	HCC67	166	EST000144	M62220	HCC67	166	EST000144	M62220	HCC67
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62	EST000069	MG2020	HFA23	126	EST000125	M62069	HCC42												
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376	EST01436	M78282	HFBA33	442	EST01436	M78734	HFBA26	509	EST01472	M73388	HFBCB17	513	EST00334	M73386	HFBCB18	547	EST01483	M78799	HFBCB68
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382	EST00434	M78288	HFBA39	448	EST00487	M78740	HFBA32	515	EST00340	M73394	HFBCB29	519	EST00340	M73392	HFBCB30	553	EST00366	M78418	HFBCB74
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107	EST02645	M86020	HFBCY33	1695	EST00848	M78701	HFBC42
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111	EST02649	M86024	HFBCY37	1699	EST00852	M78705	HFBC38
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115	EST02653	M86028	HFBCY41	1703	EST00856	M78709	HFBC34
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118	EST02656	M86031	HFBCY44	1706	EST00859	M78712	HFBC31
119	EST02657	M86032	HFBCY45	1707	EST00860	M78713	HFBC30
120	EST02658	M86033	HFBCY46	1708	EST00861	M78714	HFBC29
121	EST02659	M86034	HFBCY47	1709	EST00862	M78715	HFBC28
122	EST02660	M86035	HFBCY48	1710	EST00863	M78716	HFBC27
123	EST02661	M86036	HFBCY49	1711	EST00864	M78717	HFBC26
124	EST02662	M86037	HFBCY50	1712	EST00865	M78718	HFBC25
125	EST02663	M86038	HFBCY51	1713	EST00866	M78719	HFBC24
126	EST02664	M86039	HFBCY52	1714	EST00867	M78720	HFBC23
127	EST02665	M86040	HFBCY53	1715	EST00868	M78721	HFBC22
128	EST02666	M86041	HFBCY54	1716	EST00869	M78722	HFBC21
129	EST02667	M86042	HFBCY55	1717	EST00870	M78723	HFBC20
130	EST02668	M86043	HFBCY56	1718	EST00871	M78724	HFBC19
131	EST02669	M86044	HFBCY57	1719	EST00872	M78725	HFBC18
132	EST02670	M86045	HFBCY58	1720	EST00873	M78726	HFBC17
133	EST02671	M86046	HFBCY59	1721	EST00874	M78727	HFBC16
134	EST02672	M86047	HFBCY60	1722	EST00875	M78728	HFBC15
135	EST02673	M86048	HFBCY61	1723	EST00876	M78729	HFBC14
136	EST02674	M86049	HFBCY62	1724	EST00877	M78730	HFBC13
137	EST02675	M86050	HFBCY63	1725	EST00878	M78731	HFBC12
138	EST02676	M86051	HFBCY64	1726	EST00879	M78732	HFBC11
139	EST02677	M86052	HFBCY65	1727	EST00880	M78733	HFBC10
140	EST02678	M86053	HFBCY66	1728	EST00881	M78734	HFBC09
141	EST02679	M86054	HFBCY67	1729	EST00882	M78735	HFBC08
142	EST02680	M86055	HFBCY68	1730	EST00883	M78736	HFBC07
143	EST02681	M86056	HFBCY69	1731	EST00884	M78737	HFBC06
144	EST02682	M86057	HFBCY70	1732	EST00885	M78738	HFBC05
145	EST02683	M86058	HFBCY71	1733	EST00886	M78739	HFBC04
146	EST02684	M86059	HFBCY72	1734	EST00887	M78740	HFBC03
147	EST02685	M86060	HFBCY73	1735	EST00888	M78741	HFBC02
148	EST02686	M86061	HFBCY74	1736	EST00889	M78742	HFBC01
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156	EST02694	M86069	HFBCY82	1744	EST00897	M78750	HFBC00
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159	EST02697	M86072	HFBCY85	1747	EST00900	M78753	HFBC00
160	EST02698	M86073	HFBCY86	1748	EST00901	M78754	HFBC00
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164	EST02702	M86077	HFBCY90	1752	EST00905	M78758	HFBC00
165	EST02703	M86078	HFBCY91	1753	EST00906	M78759	HFBC00
166	EST02704	M86079	HFBCY92	1754	EST00907	M78760	HFBC00
167	EST02705	M86080	HFBCY93	1755	EST00908	M78761	HFBC00
168	EST02706	M86081	HFBCY94	1756	EST00909	M78762	HFBC00
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174	EST02712	M86087	HFBCY00	1762	EST00915	M78768	HFBC00
175	EST02713	M86088	HFBCY01	1763	EST00916	M78769	HFBC00
176	EST02714	M86089	HFBCY02	1764	EST00917	M78770	HFBC00
177	EST02715	M86090	HFBCY03	1765	EST00918	M78771	HFBC00
178	EST02716	M86091	HFBCY04	1766	EST00919	M78772	HFBC00
179	EST02717	M86092	HFBCY05	1767	EST00920	M78773	HFBC00
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181	EST02719	M86094	HFBCY07	1769	EST00922	M78775	HFBC00
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190	EST02728	M86103	HFBCY16	1778	EST00931	M78784	HFBC00
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192	EST02730	M86105	HFBCY18	1780	EST00933	M78786	HFBC00
193	EST02731	M86106	HFBCY19	1781	EST00934	M78787	HFBC00
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195	EST02733	M86108	HFBCY21	1783	EST00936	M78789	HFBC00
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200	EST02738	M86113	HFBCY26	1788	EST00941	M78794	HFBC00
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209	EST02747	M86122	HFBCY35	1797	EST00950	M78803	HFBC00
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212	EST02750	M86125	HFBCY38	1800	EST00953	M78806	HFBC00
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216	EST02754	M86129	HFBCY42	1804	EST00957	M78810	HFBC00
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228	EST02766	M86141	HFBCY54	1816	EST00969	M78822	HFBC00
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249	EST02787	M86162	HFBCY75	1837	EST00990	M78843	HFBC00
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1882	EST01001	M78053	HICP009	1975	EST01083	M78905	HICP006	2018	EST01108	M78060	HICP011	2090	EST01151	M79003	HICP020	2090	EST01151	M79003	HICP020
1883	EST01002	M78054	HICP010	1976	EST01084	M78906	HICP007	2019	EST01109	M78061	HICP012	2091	EST01152	M79004	HICP021	2091	EST01152	M79004	HICP021
1884	EST01003	M78055	HICP011	1977	EST01085	M78907	HICP008	2020	EST01110	M78062	HICP013	2092	EST01153	M79005	HICP022	2092	EST01153	M79005	HICP022
1885	EST01004	M78056	HICP012	1978	EST01086	M78908	HICP009	2021	EST01111	M78063	HICP014	2093	EST01154	M79006	HICP023	2093	EST01154	M79006	HICP023
1886	EST01005	M78057	HICP013	1979	EST01087	M78909	HICP010	2022	EST01112	M78064	HICP015	2094	EST01155	M79007	HICP024	2094	EST01155	M79007	HICP024
1887	EST01006	M78058	HICP014	1980	EST01088	M78910	HICP011	2023	EST01113	M78065	HICP016	2095	EST01156	M79008	HICP025	2095	EST01156	M79008	HICP025
1888	EST01007	M78059	HICP015	1981	EST01089	M78911	HICP012	2024	EST01114	M78066	HICP017	2096	EST01157	M79009	HICP026	2096	EST01157	M79009	HICP026
1889	EST01008	M78060	HICP016	1982	EST01090	M78912	HICP013	2025	EST01115	M78067	HICP018	2097	EST01158	M79010	HICP027	2097	EST01158	M79010	HICP027
1890	EST01009	M78061	HICP017	1983	EST01091	M78913	HICP014	2026	EST01116	M78068	HICP019	2098	EST01159	M79011	HICP028	2098	EST01159	M79011	HICP028
1891	EST01010	M78062	HICP018	1984	EST01092	M78914	HICP015	2027	EST01117	M78069	HICP020	2099	EST01160	M79012	HICP029	2099	EST01160	M79012	HICP029
1892	EST01011	M78063	HICP019	1985	EST01093	M78915	HICP016	2028	EST01118	M78070	HICP021	2100	EST01161	M79013	HICP030	2100	EST01161	M79013	HICP030
1893	EST01012	M78064	HICP020	1986	EST01094	M78916	HICP017	2029	EST01119	M78071	HICP022	2101	EST01162	M79014	HICP031	2101	EST01162	M79014	HICP031
1894	EST01013	M78065	HICP021	1987	EST01095	M78917	HICP018	2030	EST01120	M78072	HICP023	2102	EST01163	M79015	HICP032	2102	EST01163	M79015	HICP032
1895	EST01014	M78066	HICP022	1988	EST01096	M78918	HICP019	2031	EST01121	M78073	HICP024	2103	EST01164	M79016	HICP033	2103	EST01164	M79016	HICP033
1896	EST01015	M78067	HICP023	1989	EST01097	M78919	HICP020	2032	EST01122	M78074	HICP025	2104	EST01165	M79017	HICP034	2104	EST01165	M79017	HICP034
1897	EST01016	M78068	HICP024	1990	EST01098	M78920	HICP021	2033	EST01123	M78075	HICP026	2105	EST01166	M79018	HICP035	2105	EST01166	M79018	HICP035
1898	EST01017	M78069	HICP025	1991	EST01099	M78921	HICP022	2034	EST01124	M78076	HICP027	2106	EST01167	M79019	HICP036	2106	EST01167	M79019	HICP036
1899	EST01018	M78070	HICP026	1992	EST01100	M78922	HICP023	2035	EST01125	M78077	HICP028	2107	EST01168	M79020	HICP037	2107	EST01168	M79020	HICP037
1900	EST01019	M78071	HICP027	1993	EST01101	M78923	HICP024	2036	EST01126	M78078	HICP029	2108	EST01169	M79021	HICP038	2108	EST01169	M79021	HICP038
1901	EST01020	M78072	HICP028	1994	EST01102	M78924	HICP025	2037	EST01127	M78079	HICP030	2109	EST01170	M79022	HICP039	2109	EST01170	M79022	HICP039
1902	EST01021	M78073	HICP029	1995	EST01103	M78925	HICP026	2038	EST01128	M78080	HICP031	2110	EST01171	M79023	HICP040	2110	EST01171	M79023	HICP040
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1906	EST01025	M78077	HICP033	1999	EST01107	M78929	HICP030	2042	EST01132	M78084	HICP035	2114	EST01175	M79027	HICP044	2114	EST01175	M79027	HICP044
1907	EST01026	M78078	HICP034	2000	EST01108	M78930	HICP031	2043	EST01133	M78085	HICP036	2115	EST01176	M79028	HICP045	2115	EST01176	M79028	HICP045
1908	EST01027	M78079	HICP035	2001	EST01109	M78931	HICP032	2044	EST01134	M78086	HICP037	2116	EST01177	M79029	HICP046	2116	EST01177	M79029	HICP046
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1911	EST01030	M78082	HICP038	2004	EST01112	M78934	HICP035	2047	EST01137	M78089	HICP040	2119	EST01180	M79032	HICP049	2119	EST01180	M79032	HICP049
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1914	EST01033	M78085	HICP041	2007	EST01115	M78937	HICP038	2050	EST01140	M78092	HICP043	2122	EST01183	M79035	HICP052	2122	EST01183	M79035	HICP052
1915	EST01034	M78086	HICP042	2008	EST01116	M78938	HICP039	2051	EST01141	M78093	HICP044	2123	EST01184	M79036	HICP053	2123	EST01184	M79036	HICP053
1916	EST01035	M78087	HICP043	2009	EST01117	M78939	HICP040	2052	EST01142	M78094	HICP045	2124	EST01185	M79037	HICP054	2124	EST01185	M79037	HICP054
1917	EST01036	M78088	HICP044	2010	EST01118	M78940	HICP041	2053	EST01143	M78095	HICP046	2125	EST01186	M79038	HICP055	2125	EST01186	M79038	HICP055
1918	EST01037	M78089	HICP045	2011	EST01119	M78941	HICP042	2054	EST01144	M78096	HICP047	2126	EST01187	M79039	HICP056	2126	EST01187	M79039	HICP056
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1920	EST01039	M78091	HICP047	2013	EST01121	M78943	HICP044	2056	EST01146	M78098	HICP049	2128	EST01189	M79041	HICP058	2128	EST01189	M79041	HICP058
1921	EST01040	M78092	HICP048	2014	EST01122	M78944	HICP045	2057	EST01147	M78099	HICP050	2129	EST01190	M79042	HICP059	2129	EST01190	M79042	HICP059
1922	EST01041	M78093	HICP049	2015	EST01123	M78945	HICP046	2058	EST01148	M78100	HICP051	2130	EST01191	M79043	HICP060	2130	EST01191	M79043	HICP060
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1925	EST01044	M78096	HICP052	2018	EST01126	M78948	HICP049	2061	EST01151	M78103	HICP054	2133	EST01194	M79046	HICP063	2133	EST01194	M79046	HICP063
1926	EST01045	M78097	HICP053	2019	EST01127	M78949	HICP050	2062	EST01152	M78104	HICP055	2134	EST01195	M79047	HICP064	2134	EST01195	M79047	HICP064
1927	EST01046	M78098	HICP054	2020	EST01128	M78950	HICP051	2063	EST01153	M78105	HICP056	2135	EST01196	M79048	HICP065	2135	EST01196	M79048	HICP065
1928	EST01047	M78099	HICP055	2021	EST01129	M78951	HICP052	2064	EST01154	M78106	HICP057	2136	EST01197	M79049	HICP066	2136	EST01197	M79049	HICP066
1929	EST01048	M78100	HICP056	2022	EST01130	M78952	HICP053	2065	EST01155	M78107	HICP058	2137	EST01198	M79050	HICP067	2137	EST01198	M79050	HICP067
1930	EST01049	M78101	HICP057	2023	EST01131	M78953	HICP054	2066	EST01156	M78108	HICP059	2138	EST01199	M79051	HICP068	2138	EST01199	M79051	HICP068
1931	EST01050	M78102	HICP058	2024	EST01132	M78954	HICP055	2067	EST01157	M78109	HICP060	2139	EST01200	M79052	HICP069	2139	EST01200	M79052	HICP069
1932	EST01051	M78103	HICP059	2025	EST01133	M78955	HICP056	2068	EST01158	M78110	HICP061	2140	EST01201	M79053	HICP070	2140	EST01201	M79053	HICP070
1933	EST01052	M78104	HICP060	2026	EST01134	M78956	HICP057	2069	EST01159	M78111	HICP062	2141	EST01202	M79054	HICP071	2141	EST01202	M79054	HICP071
1934	EST01053	M78105	HICP061	2027	EST01135	M78957	HICP058	2070	EST01160	M78112	HICP063	2142	EST01203	M79055	HICP072	2142	EST01203	M79055	HICP072
1935	EST01054	M78106	HICP062	2028	EST01136	M78958	HICP059	2071	EST01161	M78113	HICP064	2143	EST01204	M79056	HICP073	2143	EST01204	M79056	HICP073
1936	EST01055	M78107	HICP063	2029	EST01137	M78959	HICP060	2072	EST01162	M78114	HICP065	2144	EST01205	M79057	HICP074	2144	EST01205	M79057	HICP074
1937	EST01056	M78108	HICP064	2030	EST01138	M78960	HICP061	2073	EST01163	M78115	HICP066	2145	EST01206	M79058	HICP075	2145	EST01206	M79058	HICP075
1938	EST01057	M78109	HICP065	2031	EST01139	M78961	HICP062	2074	EST01164	M78116	HICP067	2146	EST01207	M79059	HICP076	2146	EST01207	M79059	HICP076
1939	EST01058	M78110	HICP066	2032	EST01140	M78962	HICP063	2075	EST01165	M78117	HICP068	2147	EST01208	M79060	HICP077	2147	EST01208	M79060	HICP077



SEQ. ID	EST#	GB#	Clone	SEQ. ID	EST#	GB#	Clone
2259	EST01304	M79159	HICP52	2326	EST01701	M79198	HICP06
2260	EST01305	M79159	HICP54	2327	EST01702	M79206	HICP07
2261	EST01735	M79162	HICP56	2328	EST01352	M79206	HICP08
2262	EST01306	M79158	HICP60	2329	EST01353	M79206	HICP09
2263	EST01307	M79159	HICP64	2330	EST01792	M79206	HICP10
2264	EST01308	M79160	HICP65	2331	EST01793	M79206	HICP11
2265	EST01309	M79161	HICP67	2332	EST01356	M79206	HICP12
2266	EST01310	M79162	HICP67	2333	EST01794	M79206	HICP13
2267	EST01756	M79163	HICP70	2334	EST01357	M79206	HICP14
2268	EST01311	M79163	HICP70	2335	EST01358	M79210	HICP15
2269	EST01312	M79164	HICP76	2336	EST01359	M79210	HICP16
2270	EST01313	M79164	HICP96	2337	EST01360	M79212	HICP17
2271	EST01314	M79166	HICP01	2338	EST01361	M79212	HICP18
2272	EST01762	M79169	HICP003	2339	EST02706	M86174	HICP07
2273	EST01315	M79167	HICP005	2340	EST01362	M79209	HICP08
2274	EST02704	M86172	HICP006	2341	EST01802	M79216	HICP09
2275	EST01316	M79168	HICP007	2342	EST01364	M79217	HICP10
2276	EST01317	M79169	HICP008	2343	EST01365	M79218	HICP11
2277	EST01318	M79170	HICP010	2344	EST01366	M79218	HICP12
2278	EST01319	M79171	HICP019	2345	EST01367	M79220	HICP13
2279	EST01320	M79172	HICP021	2346	EST01368	M79220	HICP14
2280	EST01736	M79172	HICP022	2347	EST01369	M79223	HICP15
2281	EST01321	M79173	HICP023	2348	EST01370	M79223	HICP16
2282	EST01764	M79171	HICP025	2349	EST01371	M79223	HICP17
2283	EST01322	M79171	HICP026	2350	EST01372	M86175	HICP18
2284	EST01765	M79172	HICP027	2351	EST01373	M79223	HICP19
2285	EST01766	M79172	HICP028	2352	EST01374	M79223	HICP20
2286	EST01767	M79172	HICP029	2353	EST01375	M79223	HICP21
2287	EST01768	M79172	HICP030	2354	EST01376	M79223	HICP22
2288	EST01324	M79176	HICP065	2355	EST01377	M79223	HICP23
2289	EST01325	M79177	HICP073	2356	EST01378	M79223	HICP24
2290	EST01772	M79179	HICP074	2357	EST01379	M79223	HICP25
2291	EST01326	M79180	HICP076	2358	EST01380	M79223	HICP26
2292	EST01327	M79179	HICP081	2359	EST01381	M79223	HICP27
2293	EST01328	M79180	HICP082	2360	EST01382	M79223	HICP28
2294	EST01329	M79181	HICP083	2361	EST01383	M79223	HICP29
2295	EST01330	M79182	HICP088	2362	EST01384	M79223	HICP30
2296	EST01775	M79183	HICP088	2363	EST01385	M79223	HICP31
2297	EST01331	M79184	HICP092	2364	EST01386	M79223	HICP32
2298	EST01332	M79185	HICP093	2365	EST01387	M79223	HICP33
2299	EST01333	M79185	HICP094	2366	EST01388	M79223	HICP34
2300	EST01334	M79186	HICP095	2367	EST01389	M79223	HICP35
2301	EST01779	M79186	HICP096	2368	EST01390	M79223	HICP36
2302	EST01335	M79187	HICP097	2369	EST01391	M79223	HICP37
2303	EST01336	M79187	HICP102	2370	EST01392	M79223	HICP38
2304	EST01337	M79188	HICP115	2371	EST01393	M79223	HICP39
2305	EST01338	M79189	HICP115	2372	EST01394	M79223	HICP40
2306	EST02705	M86173	HICP221	2373	EST01395	M79223	HICP41

SUBSTITUTE SHEET

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NOTE REGARDING SEQUENCE LISTINGS: The listings of SEQ ID NOS: 1-2421 are in numerical order. However, an occasional number (for example, SEQ ID NO: 44) is not found in this list. In all, 9 SEQ ID NOS are not used. Nevertheless, the  
5 convention "1-2421" is used, for example, to refer to all the SEQ ID NOS in the following list, while "1-315" is used, for example, to refer to all the listed sequences falling between SEQ ID NO 1 and SEQ ID NO 315.

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## SEQUENCE LISTING

## (1) GENERAL INFORMATION:

(i) APPLICANT: Venter, J. Craig  
Adams, Mark D.  
Moreno, Ruben F.

(ii) TITLE OF INVENTION: Sequences Characteristic of Human Gene  
Transcription Product

(iii) NUMBER OF SEQUENCES: 2412 (1-2421, with 9 SEQ ID NOS unused.)

## (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Knobbe, Martens, Olson, and Bear  
(B) STREET: 620 Newport Center Dr. Sixteenth Floor  
(C) CITY: Newport Beach  
(D) STATE: CA  
(E) COUNTRY: USA  
(F) ZIP: 92660

## (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

## (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 07/837,195  
(B) FILING DATE: 12-FEB-1992

## (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 07/716,831  
(B) FILING DATE: 20-JUN-1991

## (viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Israelsen, Ned A.  
(B) REGISTRATION NUMBER: 29,655  
(C) REFERENCE/DOCKET NUMBER: NIH004.004CP1

## (ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 619-235-8550  
(B) TELEFAX: 619-235-0176

SEQ ID NO:1: (Length of Sequence = 362 Nucleotides)

CTTCCCTTTT GTTCCCTCA GTGTCCTTT TAATGCTTC CCTCCATTTT CCTTAGCAGC ATCCTAGTTG ATGGTCGGG  
TTATCAGAGG AGCAAAAACA TTTAAGTGT AAATAATGCT CATGTCTCC CTGGGATTTC TAAACAGAAA AAATGAAGAA

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AGAGGCAGAG AAGAGCTTCA CAAGGTGIGT GCCAGCTCTG CATCATTTCC AGCTGCTCAA CCACCATTTT TCCCATTTTA  
GGTCCCCAAA AGTAGGAGGT GGGGCTCAC AGAGCTGCTG TGGGCTTTGG GTATCAAAAG CTGCAGCCAC CATATGGGCG  
ACTCTGGCT GGTGTACAGG GTGGGCATTG CCCAGGTCTT TT

SEQ ID NO:2: (Length of Sequence = 214 Nucleotides)

GTTTNTCTT TTTCTTAGCT TCATTTCTCT TAAAAACAA GGAACAAGAA AACATTGCAC CAGCGTTCTA AGCCTCAAA  
AAAANACAAA ACAATCCCC CTGCGAAGAA CAATAAACTT TACATCTCTT TGGCAACAAT AACITAAAAT CACCCAACIT  
CCATTGCTC CAACCACAGC AGTTAGTTAG TTACAAAAAT ATTCCNTGTG CTGC

SEQ ID NO:3: (Length of Sequence = 344 Nucleotides)

ATTAATAGGA AAGATGATTG TATAGATGGT GGGCTATTAA CTCAGATCAG GATGAGAATC GGGAGTGCCT TTACATGTGT  
GGTACCCAAA TGGGTGGTIG GATATAAGAG TAACAAAAGG ACTGAAAGGG TTAAAAAGA AAGAAAAAAA AAAAATCCC  
TGGTTGGGAG GGTGTTAAGT ATCGAGTGT TTTCCAAACC ATTCTCTCTC TGCTCACCTA CCCCTAGGTG ATTAAAGGAG  
ATAACTTTTA AAAAAGAAAG AATTGGCTCA AAGGTACTGT AAATTCTAGG ATTATATACC TTTATATAGG TTCATTCCTT  
GATCCCTGTA TTATCAAGGC ACAG

SEQ ID NO:4: (Length of Sequence = 352 Nucleotides)

GACCCGGTAA CCGAGGCGGC AAGGAGGCCA GGTAGTCCCG GCACCTCTCA CTCTGCAGAG ACCAGCGGCT TCGTGGGAGG  
CCTGTGGGTC ACACGTAGGG GCTAGAGCCA GCCTGCATCC TGCCACCGG GCTCCACTTG GAGATCAGCA GGAGGGCCAG  
TGTGGGACCC CTGCTGCCAC CTCTCTGGG CCTGTCTCTT TCTGGAAAT TAAGAAGGTG TGCTCCAGAG CCAAGAGGAG  
CAATAAGAAA CCTCGTGTGC CAGCTTCTTA AGGGTGCAG TGCAAGACCC CA

SEQ ID NO:5: (Length of Sequence = 562 Nucleotides)

ATACCTTAC ATATATATTC ACAGAAATC ATATTGCATA TACTCTTTCT CCACATCATA AAAATGGGTG TTGGGCTCTC  
TAGGACACAA GGAAGCAGG CCAAATTTCT CATATTTTCA GGAATAAACT GAGTGCCCCG AAGGTGTAAT AGGAACCTTT  
TACTAACCTC ATCTGACTTC ATCTCACAC CAGCATTTTG TGTGTAAGGA AACTGGCCGA GAGTGGTTAA GAAATATATC  
CAAAGACGTA TAGTTCCAAA TGAACACGG ATCTTTTAT TTAATTTCA ATCATCTTTC CATTATATCA GCCAATGATG  
GAGCAGAAAG CTGTCCAGG CAATCCAGA ATAGATCTTT CTAGGCACCC GTTCAGTGTG AGGAGGGGGA AGTGGCCTTG  
CCAAGGGGCC AGTGAGCTCA ATTAGGGTTA ACGCTGCTTC TTAGCCTACC CCAGGGGNCA CCGCATTAG GTTGTTTTGT  
GCCAGCTTT GGCAGGAAGC ATTCTCCTT TCAAAGATIN NAGCCTTGGG GTCATATATC GGGTGTAAATA GGGTCTTTT  
TT

SEQ ID NO:6: (Length of Sequence = 359 Nucleotides)

ACATGTTCTC CCTCTTTCAA TTTTAGCAGT AATGTGATCC TCAAAATGC ATTAATACTA GTTGAAGTAA ATAAACGGAA  
GAGCTCCAAA ATGCTGCTAT TAAATGCATT TTTCCACACT AATGCCAATC ATCCAAAGCT ATTTTCAACA AGTCAGGTAT  
TCAAAGCTAT TCACACCACT TGAAGAGTAA ATTACCATTT ACTGAAGCAC TTATCTGTCC TACACTGATG GGAGTAAATG  
CTTCTCATAG GTTATCTCAT GTACATTATG CCACCTTAC TTAATATGAT CACAATTNAG TGCTATAGGT TTTTGGGTTA  
ATGTTTTCCT NGGGGGAGTT GTTAAAAACA TGGCATTTT

SEQ ID NO:7: (Length of Sequence = 218 Nucleotides)

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AACTTGCAAC ATAAATACTA GAAAAAGAGA AAATATCATC AAAATACAAA TAACTGTTAG AAATCATTGC TCAAAAGAAR  
 AACCTGGCAA TGCATGATTA CGAAATGCAA AAGAMGATAC AGTTGCTCTC TGTATATGCG CTTTCCACAT CCACAGATTC  
 AAACAACGTG GGATAAAAAA GGATTTTCA ATGCCATTAA ACAVCAATGC AACAGTAA

SEQ ID NO:8: (Length of Sequence = 345 Nucleotides)

CTACAATAGA AGGCAAACTA TGTCCTCCTT TTGCTCAGAA ACTTTTAATA TCTKCCCTATT TCCCCATGTA AAAGCCAATC  
 CTCACCCACA GGTGAGAAGG GCTATCCATT TCTAGCTACA CATCTCCTCA GTCACTGCCC CCAGCCCCAG TACTTGGGGA  
 CTTTGCCCTT CGAGTCCCT GTGCCAGCAA ACTCTCCTC CAGATGTCCA CATGACTCAC CCNCTCCTT CAGGGGTCTT  
 CTCAAATGTC ACTTTACCAG AGGTGGCTTC CCTGACCATC CTGTATAAAT AGCATCACCC TACCTCCTAT CTCTCTCTCT  
 AATGTCTCAG GAATTCGATA TCAAG

SEQ ID NO:9: (Length of Sequence = 189 Nucleotides)

GTGAACAGAC TAAGGCCTTT NTGGAGGCCC AGAATAAGAT TACTGTGCCA TTTCTTGAGC AGTGTCCCAT CAGAGGTTTA  
 TACAAGAGA GAATGACTGA ACTATATGAT TATCCANGT ATAGTTGCCA CTTCAAGAAA GGAGAACGGT GTTTTATATT  
 TTACAATACA GGNITTNAGA ACCACGGG

SEQ ID NO:10: (Length of Sequence = 267 Nucleotides)

CTCCCTTCGC CACCTGCTGG ACGCGAGGGG CTACTACGAT GCCATGGGTG TCCTGRTTTT TTATTTCTCA GACAGGACTG  
 CTCGTATINT GTCTTTGGAT TCTACGTAGA TTTATATTTG TAAATATTA CATTGTGCAT GACCAGAAGA AATGTCATTA  
 TCGTAAATTT TAGATTCTGG NGTCTATATA TGNAAGNAAT ACTAACTACT AACTGTTATA ACAWCAAAAT GTGGGNTGTA  
 TATCTACARG CCNGAGCCGA CTGTICA

SEQ ID NO:11: (Length of Sequence = 247 Nucleotides)

CTCATAAGC CAGGGTGATA AAATGGTAG TTTCAATGTA TCTACAAGRC TAAGKTCAA ATTCCATGCA TGTGCTGRTA  
 AAAGACCCAT NATGGKCTIM ACTGTACTTA CTCCCATTT ATTAGCATTC ATTCTGGTCA CCAGCTCTAG TTCCTCTGCT  
 TAGCGAATCT CGCTGTCTT CAAGATGTCA TTCAAATGTC ACATTTTGIG GGAAGCCTTG CCTTTTTTGA CACGGTCTCC  
 CTGCCAC

SEQ ID NO:12: (Length of Sequence = 280 Nucleotides)

AAGGCGAGAG GCTTCTGGAG AAACCCACCC CACCAACGTC TTGATCTTGG ACTTTTAVCC TCCAGAGCTA TGAGAAAACA  
 AVTTCTGIV VATVGVGCC ACTCAGCCTG TGGATACITGG CAGCOCTAGC AAACATAC ACACATACAT TTTAACTOG  
 GTTAATCT GTGRCCATTC ACTTATGGIT CAGTTTMAA ATAGTCTAG TCTTATGVCC ACTGTAAAG TTCACCAGGA  
 CATAGGSCAT TGGGAAAGG GGCCTGTAA TCTTGGATTA

SEQ ID NO:13: (Length of Sequence = 339 Nucleotides)

VCTVICTVCC AACTTCATTC AGATATTGAC TCTGGTATG GGAACATTAA ATACATTCTC TCAGGGGAAG GAGCTGGAAC  
 CATTTTTVTR ATTGATGACA AATCAGGGAA CATTCATGCC ACCAAGACGT TGGATCGAGA AGAGAGAGCC CAGTACACGT  
 TGATGGCTCA GCGGTGGAC AGGGACACCA ATCGGCCACT GGAGCCACCG TCGGAATTCA TTKTCAAGGK CCAGGACATT  
 AATGACAGTC CTCGGAGGT TTCTGCACG AGACCTATCA TGCCAACTGT GCCSTGTARA GGTCCAATKT TGGGTGSTGT  
 ACGGTAGTGG GGAGGCCTG

SEQ ID NO:14: (Length of Sequence = 342 Nucleotides)

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GGSVGCAAAG TAGCAGATTG TAGTAAAGGA CCAGATGAGG CAAAAATTAA GGCACTCTTG GAAAGAACAG GCTACACACT  
 TGATGTGACC ACTGGACAGA GGAAGTATGG AGGACCACTT CCAGATTCCG TTTATYCAGG TCAGCAGCCT TCTGTTGGCA  
 CTGAGATATT TGTTGGGAAAG ATCCCAAGAG ATCTATTTTG AGGATGAACT TGTTCATTA TTTGAGAAAG CTTGGACCTA  
 TATGGGATCC TTCGTCTAAT GATGGATCCA CTCCTGGTC TCAATAGAGG TTAATGCGTT TGTCACTTTT TTGTACAAA  
 GGAGCARGCT CAAGGAGGGC TG

SEQ ID NO:15: (Length of Sequence = 354 Nucleotides)

ATGTTGATGC TGAAATTVAA GATCCACCAA TTCCAGAAAA ACCATGGAAG GTTCATGTGA AATGGATTTT GGCACTGAT  
 ATTTTCAATG AATGGATGAA TGAGGAGGAT TATRAGGTGG ATGAAAATAG GAAGCCTGTR AGTTTTCGTC AGCGGATTTT  
 AACCAAGAAT GAAGAGCCAG TCAGAAGTCC AGAAAGAAGA GATAGAAAAG CATCASCCTAA TGCTCGAAAG AGGAAACATT  
 CGCCTTCGCC TCCCCCTCCG ACACCAACAG AWTACGGGA AGAAGAGTGG GAAGAAAGGC CAAGCTAGCC TTTTATGGGG  
 AAGCCGCAAG AAGTCCAGAA AGAGGGWGG TTGA

SEQ ID NO:16: (Length of Sequence = 348 Nucleotides)

CAGGCAAGTT TCTTCCAGGA TGAGAAATCA GTGGAAAGTG AGGGCCAGCC AACAGCCACC ACCAACCACC CAACACGGGA  
 GCGAGACCAT CTTAAAGAG CCCAGCCAA GCTGACCATG GGTCTGACCC CAAACTGAAG AAATGCCAG CCCAGCCAAA  
 CCCAAATGTC TAACTGTAT TATAAGCAAG TACAATGGTC CTTACCTTAA GCCACTAAGT TTTGGGATGC TTTGTTACAC  
 AGCTATAGAT AAGCTGATAC AGGGAATGTC AGAWTCCATG ATGAGAGACC GAGCCTTCA KTCTGTCAGA GGYACCTTVG  
 GTTGGCAAAA CTTCAAAAAG AGGGACCT

SEQ ID NO:17: (Length of Sequence = 415 Nucleotides)

AGCAYGGGCT GGGGGGCCGG GAGTAGGGC TGGGGCTTGT TTTAGCTCTT GCCCCCACA CCCCCTCCTC TTCCGTCTCT  
 ATTAAGCCCA AGGGTTGGTG GACTTAACCT TCAGCCCATC TCTAAGGGT TCACAGACTG GATCTTTCTA AACTTTATGT  
 GGTACCTGCT TCCCCTTTC CCTGGTAGTT TTCATCTACA AAAAGTCAAA ACCTGATCGA AATAGAAATA AGATCATCAA  
 ATTGGACCAT TCTCTTAGCG TTCGAGTGTG CCGGCCAGAC TGGCATTGAG TACACGCTGA GATCCAAJCA CATCACTG  
 GCCTCAGGTC ACCAATCGC CACTCAGGGC ACAAGGCTG CCCTTGTGGT CACAAGGCTT TCCITTAATGT CGTCGGTGCC  
 CAGGTGAACC ACAAG

SEQ ID NO:18: (Length of Sequence = 356 Nucleotides)

GTATGTATGT CTGTAGGTAT TTCTATACTT AACCATCTGT GTCCCAATTG AGCTAAACAT GATTCAATTCT GATGCCAACC  
 CCCATCCATC ATGCCATGGA TCGCTCTAGA CTCTTCCCT TGTAACCTCC CACTCAAACA GTGAGAAACC TTTGCCAGT  
 ATGTTTTGGA GTAACCTCAC TGGGAGTTTG CAGTCCCACT AGATGAATGC CAACCATTT GTTCATTTAA AAGGACTTTT  
 GGAACCATAG AGCAATGGCT GGGCTGGGTC TVGCAGGTC ATCTTGAAGT AAACAATTGG CCATGAAGGC ACTTGCCAAG  
 GAACTCTAG GGGCCACAAG GGTCTGGGT GCTTGC

SEQ ID NO:19: (Length of Sequence = 339 Nucleotides)

CATGCTTCCA TTTTTTTTAG TTTTAAACCA CCAACCAAT ATTTTTCCTT TAAATTTTAA TCTTATAATA TAGAAATCTT  
 ATGTAAATGA AATTTTGTCA TGTTCAAAT AAAGAGAACT GAAGTAGAAA ATAGAAATGC CAGTAAACAA CATAATGTTT  
 AATTACAAAC TTACATTAGG GGTITGGGG VATGCTAATT ATATATTGAG AATATACATT AGAAGCTTTC AAAATGGGCT  
 CTTCTAATGA GGTCACTACT GAACATAATT GTTCCCTCTT CTGTTAAATA GAATAGGTTT AAATGACTAG TCCAAATGGA  
 ATTATTGCCT TCTKGTAA

115

SEQ ID NO:20: (Length of Sequence = 437 Nucleotides)

AGAACAAGGG AACTCAGCAG CCCCTCCCTT CCCATCAGCT GTTCCTGAGA GATGCAATAT AGTAGTCATC GACATCATCC  
 TTATCAACAG CATCATCACT CAGACAGTGG TGAAAGTCTT TCTTCACAAG GAAAAACAAA GATAAAGAAA TACATGAGCA  
 TTAATCAGAA ATTTTCAAAG CTGGGATCTT AATGATATGC ATTATCATTG GACATTCAAA TGCTATACAT CTTCTGATGA  
 AGCCTCCTTG ACAGCAGCTA CACTTATTTT ACATTAGAAT GCCTAGAGAA ATCCTGACTG CCCAGCTTGG TCATGGGACC  
 TTCCCCACTC TCCTCTTGGA GGAATGAAAA GATGTGGGGG CTTTCTACTT TTGCTACTGA GCTGGGGTAT ATGGCTAGGT  
 CCACTTTCTA AGGGGCTTGG AAGGGTTATT CCATCTG

SEQ ID NO:21: (Length of Sequence = 385 Nucleotides)

GTTCGATTTG CTTTTTTTTT AGAGTTTTC ACAGTGTTC TTCCAGGAATA TTGGTCTTTC ATTTTCTTTT CTGGAATAT  
 TTCTAGTTT TACTTTGTCA GAGTAAATTC TGGCTTCACA GAATTATTG TAGTCTCTCC TGTCTTGGT TATTCATGCT  
 GCTATAACAA AATACCACAG ACAAGGTGGT AATAAATAAC ACAAATTTAT TTTTCCAGT TCTGGAGGCT AGGAGTTCAA  
 GAAGCTGGCA AGTTCAATGT CTGGTGAGAC CCATTCCTTC ATAGGTGGCA CCATCTAGGG GTCCTTACAT GRCAAAGAGA  
 TGGAAGGGCC AAAAAGATGG TGACCTATTG TGAGGCCTTT TTTAAAGGGC CTTVAAATCC CAGTC

SEQ ID NO:22: (Length of Sequence = 374 Nucleotides)

ACCTTCATGG TCATGAAGGC CATGCAGTCT CTCAAGTCCC GAGGCTACGT GAAGGAACAG TTTGCCTGGA GACATTTCTA  
 CTGGTACCTT ACCAATGAGG GTATCCAGTA TCTCGTGAT TACCTTCATC TGCCCCCGGA GATTGTGCCT GCCACCTAC  
 GCGGTAGCCG TCCAGAGACT GGCAGGCTTC GGCTTAAAGG TCTGGGAGGG TGAGCGACCT GCGAGACTCA CAAGAGGGGA  
 AGCTGACAAG AGATACCTAC AAGACGGGAG TRCCTGTGCC ACCTGGTGCC GACAAGAAAG CCGAGGCTTG GGTCTGGGTC  
 AGCAACCGAA TTCCAGTTTA GAGGCGGATT TVGGTGTGK ACGGTGTCAG CCAC

SEQ ID NO:23: (Length of Sequence = 322 Nucleotides)

CAAAACGTGA TCACCACAGC TCGTTCCCTG CAGTGACACT TAACATACTC AGCATCTCA TGAATTCGA ATAATTTACT  
 GATCGTAAAG TCTAAAAGTA TCAATTTAG GTGAGCAGTT TTAATCAGA AAATAGTCAA TAGTTAATCA TGACTCTTCA  
 GGGTATTTCC TTACGTCCT CTGAAGAGTT TCCAGAACA TTCTGTGAA AAGGAATGCC TCCCAACAAT GGAGAGCAAC  
 AATAGCAACA GGCATCTGAA TCAGCCTGGC CTCTGAAAC AGACCANAGA GGAGTTTATC TGTTCCTTCC AGTGGAGGAA  
 GG

SEQ ID NO:24: (Length of Sequence = 113 Nucleotides)

CCTGAAATCG GAGTCTTTTG GACTGACTCC AAATTCAATG GGTGGCAGAG GCAGCACGGA GTCCAGTGA ATCTCCACCC  
 CGTTAACAGG CGGACGACA GCCCCTTGCA GCC

SEQ ID NO:25: (Length of Sequence = 399 Nucleotides)

GGAAAGAATG AAGGAAAAAC AAGACAAAAT CTAATTTCATG GCTGGGTCCA GCAGAAAAGA GCAGACGCTG GCCTCAGACA  
 CAGACAGCAG TCTTGATGCC TCGACGGGAC CCCTTGAAGG CTGTGATGA TAGGTTAGAA ATAGCAAACC TGTCAGCATT  
 GAAGGAACCT TCACCTCCGT GGGCCTGAAA TGCTGGGAG TTGATGGAAC CAAATAGAAA AACTCCATGT TCTGCATGTA  
 AGAAACACAA TGCCTTGCC TACTCAGACC TGATAGGATT GCCTGCTTAG ATGATAAAAT GAGGCAGAAAT ATGTCTTGAA  
 GAAAAAANTT GCAAGCCACA CTTCTINGAGA TTTTGTTCAA GATCCATTTT AGGGTGAGCA GTTAGAGTAG GTTGAATTT

SEQ ID NO:26: (Length of Sequence = 355 Nucleotides)

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GATTGGTATA CGGGCAACAA TGGATTGATA GCCTTAATAT AGAAATAGTT CCAGCAGGCC AGATGCAGTG GCTCAATTCT  
 GTAAACCCAG TGCTCTGCAC AGCTAGGAAG GAAGATCACT TGGGCCCAGG AGTTCAAGGC TCCAGTGAGC CATGATCAGC  
 CCACTKCCTC CAGCCTGGGT GACAGAGTNA GGCCCTGTCT CTAAAAAATG AAATAGCTCC ATCAAGTCAA TAATTAAAAG  
 TTCAACAGCC CAACAGANCA AAAATTGTAA ATGANCAAA ATTAGAAAAT GTACAAATTA AATATTAATG ACCCATAACC  
 CTATAAGGGA AAGTTTAACC TCTCTAGTAT TTTTT

SEQ ID NO:27: (Length of Sequence = 322 Nucleotides)

AAAACGTGAT CACCACAGCT CCGTTCCTGC AGTGACACTT AACATACTCA GCATCTTCAT GAAITCTGAA TAATTTACTG  
 ATCGTAAAGT CTAAAGTAT CAATTTCAAG TGAGCAGTTT TAAATCAGAA AATAGTCAAT AGTTAATCAT GACTCTTCAG  
 GGTATTTCTT TCAGTCTCTC TGAAGAGTTT CCCAGAACAT TCTGTGTGAAA AGGAATGCCT CCCAACAATG GAGGAGCAAC  
 AATAGCAACA GGCATCTGAA TCAGCCTGGG CTCTGAAAAC AGACCAAGA GNGTMTTTC TGCTTTCTTC CAGTGAGGAA  
 GG

SEQ ID NO:28: (Length of Sequence = 287 Nucleotides)

TATTTTTATT AAAGGACCAC CCGTGGCTGIM GTGAGATGAA TGGATTCAAA CAGGGCAAGA GTGGATACAG MGAGATAAGT  
 TAGGAAGCTG GTATAGAAAT CTGGATGAGA TATGGTGGCT TGGATGATAC TAGCAGTGAG TATGGGAAGT AGGTGGATTA  
 CTTTACACTT TTTTAGATCA GTCKATTCTT GATGTCTTGA AGACAAATTA ATCTCATATA TAACTCTAAA CAACATATTT  
 ATATTTTCATG TAAATAAGGA TAATGCTGAC CAAATATTAG CACCTTT

SEQ ID NO:29: (Length of Sequence = 282 Nucleotides)

CAGGGCAGGG AAGCCTGGAA GCAAAGGAGG ACCTGGCTCC TGACTCTCAG AGAGGATAGG CTGGGATCCC TGGGGCAGGC  
 CTGTCTCTTG GCTGGCCAAAT TTAGTCTTTC AATTGTCTAA GGGCTCTCCA TTGCCCTGCC TTGCCCTCTT CTAGCCTGTT  
 ATTTCTAGGC TCCTCTGAAT AAATCTCAGG TTCTCTACTG TCATGCCCTT AGTTCAAAAA TGAGAATCTG CCTACAGTG  
 CTGGCCTCCT TCCGGCCTGA AAGCCAGCAC CTTKCGACCC GG

SEQ ID NO:30: (Length of Sequence = 345 Nucleotides)

GAAGCTGGTG AATACATTTC AAGACACAAC ATGGCACCTG TGCTAGCTC TATGGTACAA CATGGTACTA TGACACATAT  
 AATGGGTTC CAGATGGGGA AGGCAGCTTC TCTGCAACTG AGCTGAGATC TCAAAATAGA CAATGTCAAG ATGGAATGAG  
 AAGGGAAAA CAGCATGTGT AGACAGGTAG TGACAAAAGG CTAATTAAGG ACTGAAAGAA ACCAGTGGCC AACAAGGGAA  
 TCTACGGGTG ATAAAGATAA GACGGTGAGA GAGATAAGGC TAGATTGTAT AAGGCTTGAC AGACCATAGC AAGATAAGCA  
 AGGACCTGTG TCCTGTTAAC CATTT

SEQ ID NO:31: (Length of Sequence = 343 Nucleotides)

ATAAAATTGG TCTGGGTACC CTAAGGTGTT TGCKTGTGATA GAAAATTGAC ACCCCAAACT AAGTGTCTA CTTAGCTTCT  
 ACAATAGTTA TTCTAGACC TTAGATTAGT CATTACATTT TTATTTAAGG TACTATGTTA CTTTCATGAC TACAAAATGA  
 GGCACCTGTA CAAAACAGGA ATGAAAACAT ACATATACTG TCTGTCTTT ATGTCTATT AATGCCAAG ATATTGTCAG  
 GGATTTATTT AAAGAAGCCC TTAATCATGA TGGCTATTTT TAAAAATGGC ACAGGACAGT AACAGGCTGA AAAGAAACAC  
 CTGGTTTGAG GGGCCAAAT AAG

SEQ ID NO:32: (Length of Sequence = 153 Nucleotides)

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ACAGGATGGT CAGGACAAGC CACCTCTGGT AAAGTGACAT TTGAGANGAC CCCTGAAGGN GGGGGGTTGA GTCATGTGGA  
CATCTTGAGG AAGAGTTTAC TGGCACAGG AACTGCAAGG KCAAAGTCCC CAAGTACTAG GGCTGGGGGC AGT

SEQ ID NO:33: (Length of Sequence = 257 Nucleotides)

TCAGTCAGCT TATCGCAGGT GCAGCCAAAC ACAAAGCTTC AGGACAAATT GTACAAACTT TACAATGTGG GATTTAAATT  
TAAAATATGA TACATAAAAA TCTACACAAA ACTGATAAAA ATCAAGCACA GNTACCAGGA TTGAAACTTA TAATAATCCA  
TGIGTGAAAG GGAGTCTTGT TTCCTTTCAA GTGCTTTTAT TCTGCTATGG AACAGTCAAA ATGGAAGNTG TAAAGCTTTG  
TGGTTAGITT AAATTAT

SEQ ID NO:34: (Length of Sequence = 307 Nucleotides)

CTCCACCCCA TATCTAATCC AACAGTCCA GCTGCCTCTC TCINAAMAAT ACCNARGATC AGGCCCCCTC TCAGCACCCC  
CACAGCTGCT GCCCAAAGG AAGCCACGTC ATCTCTCAGC GAGATTGTTC AGCAGCCACT GCCTCCTTGT CACCTTCGCC  
TGTTGTCATT CTCCCACAT GGCCAGGGAA TGGTCTGT TAAAGTCTGC TAGGTCACGG TCCTTCCTAC TCAAAATGCT  
CCCYTGGCTC CCACTGCCCC CAGAGTAAAA AGCCAGACC TTCAAATGAC ACAAAGGCCT ACAACGA

SEQ ID NO:35: (Length of Sequence = 266 Nucleotides)

TCCACAGGTC ATCAGATGCC TGCTNGATAA TATATAACA GTAAAAACAA CTTTCACITC TTCCTATINT AATCGTGTGC  
CATGGATCTG ATCTGTACCA TGACCCATCA TAAGGCTGGA TGGACCTCAG GCTGAGGGCC CAATGTATGT KITGGCTGTG  
GTGTTGGTTGG GAGTGTGTCT GCKGAGTAAG AACACGNITT TCAAGATTCT AAAGCTCAAT TMAAGTGGCA CATTAAATAT  
AAACTCAGAT CTGNTCAAAA GTCCGG

SEQ ID NO:36: (Length of Sequence = 388 Nucleotides)

CAGCTTTGGA AAGACTTTGA CCTCTGAACA AAAAGCCAGA AGGCTGCTTA AAGAAATAGT AAGGGTTTCA CTGCCCCTGG  
ATAGTCACAA ATCTAGGAGT ACTGGTTCAC TGCTTGGGT TACCAGGTAT CAGCTCTTTC ACAATCTCTC CTCTTCCCAT  
GCTTCCCCTT AAAGTCCAGT TGACAAATGA AAAAGAAAAA AAGGCTTGA TTTATAGTAT TGCCAAACAA CCTCATAAGA  
ATGGGTAAAA TTACATACAC ACATACATAG AGAAGGGAGG TAATGCTGTG AATCTACTTG AGCTGGATTG CATGCTCCCT  
AGGGACCACG GTGCCCAACC TGTAAATTTA TTCTAACTT TTATAAATAT ACTCCTTTTT CACGGATG

SEQ ID NO:37: (Length of Sequence = 342 Nucleotides)

GAATGTCTAC ACAAGGAAGT ACAGGATTIG GCTTTTCTAG ATGTATATC CAACTTCGC AGTCATGAGA ACAAAGTGT  
TGCCAGCAG GCCTCTCTCA CAGAGCAGAG ACTTACTGTG GAAAGCTGAG AACTGCCCGA TACAGGCAT CATCCCATCT  
CTAATTTCCC CTCTGTCTC CATCCAGCG CTCTTCCGC TTCAITCTCT ACCATACCAC TTGTGCATGC ATGTRATGTT  
CTAATACCA TTGAAGAACC GCTGTAGGTA CTCCCTAAT AAGGATTCT AAACCTATAG TTAGTGTGAT CATGACTTTG  
GTCAAAGGCA AGTYTCCAC CC

SEQ ID NO:38: (Length of Sequence = 355 Nucleotides)

GATGACTTGG AGAATGCCGA AGAGGAAGGC CAGGAGAATG TCGAGATCCT CCCCTCTGGG GAGCGACGC AGCCAACCAG  
AAGCGAATCA CCACACCATA CATGACCAAG TACGAGCGAG CCCGCTGTCT GGGCACCCGA GCGCTCCAGA TTGCGATGTG  
TGCCCTGTG ATGGTGGAGC TGGAGGGGGA GACAGATCCT CTGCTCATTG CCATGAAGGA ACTCAAGGCC CGAAAGATCC  
CCATCATCAT TGCCCGTTAC CTGCCAGATG GGAGCTATGA AGACTGGGGG GGTGACGAG CTCATCATCA CGACTTGAG  
CTGGAGTCAT CTTTCCCTGMC CTTTCCCCCA TGCCC

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SEQ ID NO:39: (Length of Sequence = 303 Nucleotides)

GCCAAAAACA NYTCTGAACC CGTTTTGGGA AATAATGGGA TTCCTTGATC ACGGGACAAC GAATCACCOCT GAAGTTTTTC  
TCCAGTTTAC TCAGTCACAT AAGCCACCAG AGGCTAACCA CACTGACAAC AAAAGCAAGT CCCAGGATTC CGGGGGCTAA  
TACCATGCTA GGCATTACTT GGGAAGTIAT GAGTTGGTAT ACATCTGTGA ATTGGTGGG AGGAGAAAAC TAACAGTAAA  
TTTATCAAAG CCAGTGGTAC GTTCAGCGTT ATAAAAATTA CAAGGATCTG CTCTCGGCG ACT

SEQ ID NO:40: (Length of Sequence = 178 Nucleotides)

GGTGTGGGG GCTAGAGATA CACATGCCAG TNCIATACAT TTCTCAGCAC TGTGCTGTG ATTACAGCA GTTCAATTGT  
TCATGCGATA TAAGCCAGTC ATGTGGCCCA AGTTATTCTG TCGGCTGTGT TCTCTGCAGG AATCTGATGC AAGAAGGCCT  
GAAGGATGCA TGGCTTTT

SEQ ID NO:41: (Length of Sequence = 322 Nucleotides)

TGCTTTCTT TAGAAATTA GGGCAGTGTG ATGCTTCCAG AGGCTGTGAC AAACACCAGC TTTCATTGTG CTGGGGAGTT  
TCCATGCCCT TYCCTTCTCT TCGCTTAGTG CAGTPTCTG CTTTITATCA GTTIGACTGC CTGAGACTGA KTCCAACAAC  
CCAAACTGAA CGCTCAGCTC CTCTTTTCA AAGGAGGATG ACTTNTCTNA ACAACTATTT AGGTGAATTA TTKKACAGT  
TTATTAAAGC AATGGCTCTA AACAAATTC ACTGGGGGTG ACAAAGTACA ATACAAAAGG CGTACTCTGA GGGCTTGGG  
GT

SEQ ID NO:42: (Length of Sequence = 278 Nucleotides)

AAACTTTGGC ATTTTATTCT AGACACGTAT AAAACAACAA CAAAAACTT CAGTGATACA ACAGACGTTT TCCCTTAGTT  
CCCCATCCAA GGGGACAGAG GTGTGCAGCT GAAGCTGGAY CTTTTTCTG TCCTACCTGG AAGCTGTCTC ACTGCTGGAT  
GAGAAATGGCT TCTAAAAGTG GATCTTGGG ATCCTTGTGA ATTTGCCCTC GGATAAGGAG TGAAGWTCAT TTACGGCACA  
TGTGGATTAT GGTITACACA AAGATGTCCA GTTATTTT

SEQ ID NO:43: (Length of Sequence = 225 Nucleotides)

AGATCAAAAG ATGAGAGAAG CTGAAACAGA ACCGATGAG GGAAGAGGA AAGTGAATC TCTGTGGCCC ATCTTCAGGA  
TCCACCACCA GAAAACCGT TACATCTTCG CCTCTTTTAC AAGCGGAAAG CCAGCAGCAG GATCTCTAGG AATATTAGTA  
TTAAAGAAGG CTATGCAGCA TAAACCTGAT TTCAAATGG TAAAGCAAG GTTATGTGTA CTGT

SEQ ID NO:45: (Length of Sequence = 305 Nucleotides)

GGATTGCCAG GAGCTGTTC AGGTGGGGA GAGGCAGAGT GGACTATTTG AAATCCAGCC TCAGGGGTCT CCGCCATTTT  
TGGTGAAGTG CAAGATGACC TCAGATGGAG GCTGGACAGT AATTCAGAGG CGCCACGATG GCTCAGTGA CTTCAACCGG  
CCCTKGGTAG CCTACAAGGC GGTGGTTTIG GGGGATCCCC ACGGCGAGTT CTGGCTTGGG TCTTGGAGAA AGGKGCATAG  
CATCACGGGG GGACCGGAAC AGCCGMCITG CGGTGCAAMC TCGGGGACT GGGATGGGCA AACGC

SEQ ID NO:46: (Length of Sequence = 264 Nucleotides)

ATGAAATAGC ATATCTNNGC CTAATTAAAA GATTCCATTA CATTTACTTT TATCATTAT ACTGCCAAGG ATCAGTCACA  
AAAAATTCAA ATTATACATA TTATTCATGC TTAAATTICA TAAATAAGTA AATTAAAGCA AGCCAATATG TCTCTCTTCA  
TAACATAGGG AAAAATTACT GTTAGCATA ACAGNGTAAT AGGCAAAGTC TAGCCATACA GCAGCAGTTC ACGGTGTGT  
CAAGTTGGKA CAGGTTCAT CGAT

SEQ ID NO:47: (Length of Sequence = 175 Nucleotides)

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GATCTCTTCC AGCGTCAATG TACTGGGACA GCAAACACTC ACATTGAAG TTCTTCTGGS CCACCGGCTT CCCAGTACAT  
 TGACGCTGGA AGAGATCATC TCAAATGGTT CTCCAGTGTG AGGCTGGAGA TCTCCAGAAA TGGAGTCTAC TCCTGGGGTG  
 GCTTGTATGG GAGCC

SEQ ID NO:48: (Length of Sequence = 270 Nucleotides)

GTCTGTGAGA GGNACCGGGC AGCTCAMRCC CACAGCGGCT CCTCATCCTC TGTGGTGGCA TCCTCATTC ACCTCTCATCT  
 GCCACCTKCT CAGGCGGGCC TCTAGCTTTC TCATGTACTC TAGCAATTCC TGTTCCTCCT GCTGTAACTG CTCCTTTTCC  
 TTCTGGAGCA CACGCAGGGC TGACCGCAGC TGTGTACGCT TCCGCTTACT TTTTGACAAC TGTACCAGGC TAGAATCCTT  
 TCTGCCTGGG TCAGCTTCAG TCTTTGAACA

SEQ ID NO:49: (Length of Sequence = 359 Nucleotides)

CCCTGAAGAG TGGGTGGGAC AACCAGATGG GTGTAAACCC TTGTGGGGGA AAAGGAGTGA GTTTACTTGG TAAATAATA  
 ATGGTAATGT CAGCAGCGTG GCTGGGGGAC TCAGTATGGT CCGGGGAAAA GAGTTGGGGC AGTGAACCTC CCAGGCCGAC  
 TGGCCTTGGG CTGGCAGCAG GGAGGCTGCA GGGCGCTAC CTMTCTGCC ACGTCCCTGC CTAGGAAACC TATCCCAGGA  
 CACCCTGCTT TGGCCTGGAT AGCAGCCTAG GGATGAGCAT TTCTTTGAAA GCAATTAGGT TATTCACCTG GTATTAAAA  
 TATTTACTGT TAAAAAATCT GTGACTTCAT GGARGTGGG

SEQ ID NO:50: (Length of Sequence = 271 Nucleotides)

CCAGGAAGGA CAGGAAGTGT CCTCTAATAC GCATAAGATC CAGTACAGGA GAGATGGGAA GAGAGKCTCC AGGATGAAGG  
 GGAAARAGG CCGCATGCCA GTCACCTGGC ATCTNCCAGA GAGGGYCAGY CTNCCACTG AGACTGGGGC ACGAGTCCCG  
 TCATCACCAT GCCCTCIGAC TGTGAACTG TCTTTTACC TGACAAATAC TACACAGGTA TCGMTGTGG CCATACTCTG  
 CTATCTAAAC CCAGGAACTG ATTAGATTGT T

SEQ ID NO:51: (Length of Sequence = 226 Nucleotides)

CTCCAAGCAG TAAAGACTTG CAAAGCATTG CATTTTGATT AAACCTTGCT GGGCTGAAGG GCAGGCAGAG CTGTGGTGA  
 CACTGGCAGG ACGCAGCACC CCCCAGCTGG CCCTTGGCAG GCTGCACCGG GCGCATGCGG GTGTGGGCCA GGGTGTCTTT  
 AGGAAGCAGG TGGGAGTCTK NCACGTGCAG KGGTCCAGG AGKGYACCAK GCCTGGCAGG GCACTG

SEQ ID NO:52: (Length of Sequence = 408 Nucleotides)

GGTGGGGCAA GGTGGGGGTG AAGTGCATC CTGCTGCATG AGTGGCAGGG CAGGGTGCAC ACACACACGT GGGTMTGGC  
 TGGGTGAGGC AAGCAAAACC TGCTGCACA TGGCAAAGGG ATGTGGGAAG TATCCATGGG CNCCAGGGGA AGCTGCAGTT  
 TGGGGAGGGA ATGGGTGGCA CTGCTGCGTG TCTGTGGGGG CCACCCCACT GGGGGTCTCC AAGTGGTCAA GTTCCGTCTG  
 CCAGGTIAGA AGCTATGATG GGGGCTTCTA GGACACTINGA GGCTGACCTG AAAGCAAGGT ACTTTTCACA CTGGGACCCCT  
 GCAAGAGGCC AACAAGATTA AGGGATGCTT CAGGTACAGC TTGGCCCTCT TCTTATGGGG CAAGACCTTC CCGCAGAGT  
 TCAGATCT

SEQ ID NO:53: (Length of Sequence = 314 Nucleotides)

TTCTGTGCAG GAGGACCACA TGGCAGTCCA GCAGACTGCA CATTTTAA AACTAGGTCT TCCAGGTAG TTTGAGGAGC  
 ACCAGGGCAC ACTCAGGGAA GGGACATGTC AGTGTCTGAG AGCTCACGGG AGGAAGGTGT AGTGACAACA TGGACCATGG  
 TGGAGTGACT TTAGACGGCT CTTGGGTNAG GAGAATCATC ATGTAAACAA GCATTAAATC ATTTGGAGAA ATTCAAGAAA  
 NTCGTAGATG TACATTCTAG CCCACTTACC AGGCTACTA AACGTCAATC AGATATATTT CAATTTGAAT TCGG

SEQ ID NO:54: (Length of Sequence = 310 Nucleotides)

AAGCCACCGC ACCTGGCCCA TTACATTAT AATGTTATAA GGGGGTTGAG GGGTCGTCCA CTGGAGCAGT GGTTCCTCAA  
CTCGTGTATG CATAGGAATT ACCTGAAGGG CTTGTTAAAA CACAACTGC AGGGCCACC CCCAGAGTTT CTGGTTGGG  
AGGTGTGGG TGGGCTTGAG GATGTGAATC TCTACAAGC TCCCAGGTGA GGCTGCTGGT CTGTGGACCC ACTTCAAAGA  
CCCAGTGAAT CAGAAGAGTC AGTGAGACTG GACAAATGAA CGCAAGACAG TCTTCAAAGG AGACCAGAGG

SEQ ID NO:55: (Length of Sequence = 252 Nucleotides)

TTTTTTTTT TYCCGGGGAR GTCAACATA CTTTTCAAC ATAGGATKTC TGACAGGAGG CCCTTGGMCA GGGTTCCCTG  
ACCTCTGYTT CAAACCCAC TGGAAACAGA GCAAAGTCAT CAMGAAAACC CAGGACACCA GGGCAGGGGG GCTGCACAAG  
GTGGGGTAGG TCACAGTGGG CCAGCACACA GTGGCCCCGC CCAGGTCCAG CCCAGCCTGG GGGAGGGTGT GAGGGTTCCA  
KGCAAGCTCA TT

SEQ ID NO:56: (Length of Sequence = 188 Nucleotides)

GTCAAGTCTA CCATCATTCT AGAAGGAAAA GGCATGGTGG GAATTCAGCA CCTGAAGTGT TATTTACACC AGCCTCGGCA  
TCTGGCAAGG RAATAGCGAT TGTTCATAGT GATGCAGAGA GAGAACAGGA GGAKGAAGAA CAAATACACA CAAACAACTG  
ATCTAGGGAG ACTCCAARGA TCCAACAG

SEQ ID NO:57: (Length of Sequence = 304 Nucleotides)

AATCAGCCTG CAAGCAAAAG ATAGGAATAT TCACCTACAG TGGGCACCTC CTTGAAGAAG CTGATAGCTT TTACACAGTA  
TTAGATTGAA ATAATGGACA GAAACACATT CTTGTCAAGA AAGGGGGAGA GAAGTCTGTT TGCAAGTTTC AAAGCAAAAA  
GCAAAAGTGA AATGATTGA GGATTTCGT TCTAATTGGA GATGATTC TC GTGTGTAG AAATGGCAAA TATTGATGAT  
TGTTGTCTAT TGATTGGTGC AGGATACTTG GTATACGAGT AAATACTTGA GACTCGTGT ACTT

SEQ ID NO:58: (Length of Sequence = 261 Nucleotides)

CCAGAAGCTT CTGCTCTCT CTGTGCTCTC AGTGGTCCC TTCCCTGAAG TGCTCCCTT CTCATTAAAT ATAGCCTGTG  
TCTGAACATT GTGAGCTATA AGAACCTCA TATTAATGGT TAAGGACTG TTGGAATGA TGTGATTTTA TTAATAATGG  
GGTCTTTGTG GAGGAGTCAG GAATGGTCAA AATGAGCTTC AGGTATGGGG CTTGCTCTRT GCTCTGATA CCAAGGTCT  
GGCAAGCACA AAGGAAGGTG G

SEQ ID NO:59: (Length of Sequence = 470 Nucleotides)

AATACGTATT CTGAAGCCAC TATATCTGCA TATGTATCCC AGATTGAAC AATTAAGTAA AAAGATGGTG AATGATGAAA  
GCCAGTTTTT TGTCTGTAGA AGTGAGAGGT GACAGATAAC CAAAGGAAGA AGGCTAGAAT GGATAGAGGA CAGTGCTTAA  
GTGTAGTTCC TGTGCTTTT AGTCTTATAG ACTTCATTC CAAAGTTCT TAGCACCCC CTCCCCCTT TGGTGAAGTT  
GTTTACATA TTTCTAGAC AATTAGATT TTTGTCAAA GTCTGTGTT CATCCGAGA GCCTCTGATC TCTTAAATGA  
TTTTTTAAAT TTACATACAT TAAGGTTTAC TCTGCTGTAA AGGTCTGTGG GTTTTAAATCC TGTCTACAG TTTTGCATA  
TGTTGGCCCT CTGCTGGGA ATACTCTCCC AGATATCCC CATGACTGGC CCCTTATCTT CAATCAGATC

SEQ ID NO:60: (Length of Sequence = 466 Nucleotides)

GTGTTTCAAG GGAAGGCAAC TMCAAGTTTG TGCAGCTGAA TTTCTGTAAA GTTAAGACAG ACTCAMCTTC TCATTCAATC  
TGGGGCAGTG GATAACCTTT CTGAATAGAC CCACTGTGTC ACGGACAGGG ATAGAGGTTT GCCTTCTTC TTTCTTGA  
TTTGGAGTGA GCACTAGGGA GGGGAAGTGC ATGGGTGACA TGAAGAAGGT GAAGATGTAG TAAAAGCATC ATCCAGGTAC  
ACATTAAACG TGCTGCAGAA TTTTACAAT ACAACTGAGG GAGTCTGTAG TGGCAAAGC AATTACTGAG CACAAAAGCC

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AGTCTCAAG GGCTGATTC ACCTTCCCTG TCCAGGGACT TTCTCAGCAA ACTTTGTTC TGAGCAGTTG TTCGCTTTGA  
TGGTCTTAGC CAGTTTTTGG TGCAGGGGTG TTCTCTGTG ACTAGGGCTA GGGCAGCTGT TTAAAG

SEQ ID NO:61: (Length of Sequence = 491 Nucleotides)

GACACCCCTC CTGCCATGAA GAATGCCACT AGCTCTAAGC AGCTCCCACT GGAACCAGAG AGCCCCCTCAG GGCAGGTGG  
GCCTAGGCCA GCCCCCCC GC AGGAAGAGTC CCTTCTCTT GAAGCAAAGA GCAGAGGACC CACCCACCA GCCATGGGCC  
CACGGGATGC CAGACCTCCT CGAAGGAGCA GCCAGCCATC TCCAACAGCA GTGCCAGCCT CGACAGCCC TCCCACCAAG  
CAAGAGGTGA AGAAGGCAGG AGAGAGACAC AAGCTGGCAA AGGAGCGCG AGAAGAGCGT GCCAAGTACC TGGCGGCCAA  
GGAAGGCAGT GTGGCTGGGA AGGAGGAGAA AGGCCAAGT GCTGCGGAG GAAGCAAGCT CCATGGAGCG CCGCTGCCG  
TTTTAGGGAG CAAACGCTT AAAGCCGAGC AACGCGTTC AAGCCTTGA GGAACGGCTA GCGGAAGAAG TTTGTGAA  
ACAAGGGCG T

SEQ ID NO:62: (Length of Sequence = 478 Nucleotides)

ATCATTGAGT ACGCAGAGCT CAAACAGAC GTGTCCAGA GCTGAGGGA AGTGGGCAAT GCATCTCTT CTGCTCTC  
ATAGAGCAAG CTCTGTCTCA GGAGGAGTTC TGCATTTCG TCCATGCGA CCTTCCAA ACATCTTGCC TAGAGTCTAC  
ATCAAGAGG GGGAGCGCT GGAGGTCCG ATGAAACGTC TGAAGCCAA GTATGCCCCG CTCCACCTGG TCCCTCTGAT  
CGAGCGCTG GGGACCTCA GCAATCGCC ATTGCTCGG AGGTGACCT CTTGACCAAG GAGCGCTGT CTGTGCTGT  
CCATGTCGA GTTCATCTG ACCCGATTG GAGCTACCT CAGGACCCAT CTGGCGGGC CACCGCCACC AATGCGTATG  
ACGTCGATGA GTTTTGAGT TCACTGCTGT GAGCGCATGA GTCGTGACT GAATCTGTG GACAACGGT AAGTTACA

SEQ ID NO:63: (Length of Sequence = 183 Nucleotides)

CCTGGAAAGT GGGGTGGG CAGGGGCCA GCGCCAGCAT GCACCCCAT TTTTGGGG GCTGATCCCT GCCCCAGCTC  
TGCTGATACC CCGGCCACA GGTCCAGGCC GTTGGGGTG GAGKTAGAG TGGGAGAGCA GGGGAGAGAG CCTKAGGAGC  
CACAATGGG CAGACAGAAG CGG

SEQ ID NO:64: (Length of Sequence = 316 Nucleotides)

GGATATTGCA CCTACAGAC TTAGGGAGCC TTTACCAGAG ACGCCTAAAA CGCCCCAGGT TCAGCCATTG TGCTGAATAG  
AGTGGAAAT AGAACCAGG ACAGAGTATT TCATTTAACG TTGATATATA CTGCTAAGG AAACACTAAC AATACTGTAA  
CTTTGTAA GACATAGTA TTGAAATGG AAATAGAGT CAGGCTACA TCATCTTAGT TTAATGCTGG GCACTTTTT  
CTGATTCTG TAGTTCCCTG GAAATGTGT CCTCGTACC CATAAGTGG TACAAATGCA TTTGTAACCA TTTTGG

SEQ ID NO:66: (Length of Sequence = 411 Nucleotides)

ATCTGGTCTA GAGAGCGAC TCCAAGCTCT CTGTCTGGCT CCCAGCTGTG GGAATCCTTT AGGCTTGTTC TCAACCTACA  
CGTTAAAAAT GCTTCTTGGT GTGTTTGGG AGGGGAGAG GGAACCTGAG CTCTCTCTG ACCTCTCCA ACACCTTGA  
CTTGCTTACC CAGCATTTT CAGTAGCTAC ACGGTGGTC ACAGAACT GGGGGCACT CGGCACACAA CACAGAACCG  
GGGAGTCCA TGCAGGTGCG GGAACCATG TOGGACCCAG GGAGCAAGGA ACACGCCACC CCGAGGAACA TGCAACGGA  
GGAAGGATC CTTTCAATT CCAAGGATC CACAACCCG ACGGGCGCT TAGGGAGCA CCGATTATCT AAGGAAAAAG  
GCCACGTGT G

SEQ ID NO:67: (Length of Sequence = 413 Nucleotides)

CTGCTCTTA GTTTTTATT TCCAAAGTT AGAATTTCT TGCTTCATAG TATTATTTTA TTTTACTAAA TTACAGAGTA  
AGAAAAGCTT TTATTTTAT CTGATTTAT TCTTAGAACA AAAATATTAC GATCTCTAT ATTTTGTTC TTTTGCCAA

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AAGTGTAGGC AATTTTACAT CATCTTTTTT CCCAATCAGT TTGTGATCCA ACTATAAAAA GGAGACATAG AATACTGAAT  
AATGAAACA GAAACTCCAA GGCCAAGAAG TGTCATCTT GAAAGAGTGT TAGTGGCAAG ATATGTGACT GCAGACTAGA  
TGTAGACAAA CCTGAGAAAA ACCAAGCATG GGGGAAAGGA TYCCTATTTT AATAAATGGT GCTGGGGAAA ACTGGCTAGC  
CATATGTAAT TTA

SEQ ID NO:68: (Length of Sequence = 372 Nucleotides)

GCACGGTTAA AAGACCAACG TGTGTGGTNC AAATATAAAG GCCACACCTT TCAGACCGAA CCTACTCAAA GATCCTTTAC  
TTTGCAATAA TTGAACTGG AGAACCAAG ACGGGAGACG AATGAAAGCA AAGATGCTCA AAGAACCAAA GGAAAGACCT  
GAAGGAATCC ACCTGCATAG GCCACGCGTT CCACTCTGGG TCAAATGCTT CCACGATGCA GAAACCTTTT TTTAAAAAAG  
TGCAAGTCTA ATTACCTACC AAGGGTAATA AAAAGCACAG CACAGGAATG ATTACAGCTG ATGGTCAAAA AACAAACCAA  
AACCATTAATA AAAACAATCA GGCAGAAAAC AGGAGTTAAA TGTTTACATA TG

SEQ ID NO:69: (Length of Sequence = 389 Nucleotides)

TCTAGAACCT GGACCCACCC AGCGCGTCTT TTCTTATCCC CGAGTGGATG GATGGATGGA TGGATGGTAG GGATGTTAAT  
AATTTTAGTG GAACAAAGCC TGTGAAATGA TTGTACATAG TGTTAATTTA TTGTAACGAA TGGCTAGTTT TTATCTCTGT  
CAAGGCACAA AACCAGTTCA TGCTTAACCN TTTTTCCTT TCCTTCTCTT GCTTTCTCTT CTCTCTCTC ATACTTTCTC  
TTCTCTCTCT TTTAATTTTC TTGTGAGATA ATATTCTAAG AGGCTCTAGA AACATGAAAT ACTCAGTAGT GGATGGGTTT  
CCCACTTCTC CTCAATCGT TGCATGAAAT AATTACTATG GTGCCCTAAT GCACACAAAT AGCTAAGGG

SEQ ID NO:71: (Length of Sequence = 329 Nucleotides)

GAAAAAATGG GAGGGCAGCC ATGTATTAAT TGTACATCCA AGGAAACTGT GCGCCAGGGG TCTTGTGTGT ATTTCTGAGA  
AGAGGGGTGA GAAAAGGCAC TGTGTCAACA TTGTCTCTG CCGTGAACGTG CACCTCCAG TGCTCTCCA TCAATTAGGA  
GAACTGTCTT GAAGAATGCT GCCTCAGCTT CTGAAGAGAA GACCCAGGA CATGCATTAA TGAGAGGAGG GGAGTCACAG  
CTGCAGAAGA ATAAAGCTCT CTGAGGGAGC CTGGGNGCCC CCACTGGAGG CCTGGAGCTT GTTGACCANN GCAGCAGGAG  
ACCCCTGCT

SEQ ID NO:72: (Length of Sequence = 418 Nucleotides)

CTGAGTTGCC TGAGGTCAIT CACATGCTTC AGCACCAGTT CCCATCTGTT CAGGCAAATG CAGCGGCTTA CCTGCAGCAC  
CTGTGCTTTG GTGACAACAA AGTGAAGATG GAGGTGTGTA GGTTAGGGGG AATCAAGCAT CTGGTTGACC TTCTGGACCA  
CAGAGTTTTG GAAGTTCAGA AGAATGCTTG TGGTGCCCTT CGAAACCTCG TTTTGGCAA GTCTACAGAT GAAAATAAAA  
TAGCAATGAA GAATGTTGGT GGGGATACTT GCCTGTGTGC GGCTGTGAG AAAAATCIAT TTGATGCAGA AGTAAGGGAG  
CTGTGTACAG GAGTCTTTGG AATTATCCCT CATGTGATGC CTGTAAAAAT GACATTCATT CGAGATGCTC TCTCAACCTT  
AACAAACACT GTGATTGT

SEQ ID NO:73: (Length of Sequence = 336 Nucleotides)

CTGAATTTT ATATGCTTCA CTTAGGCTTT CATTGAGTA GACTCTAAAA ATCTGCGCTT GCTTAAGTNC TAACACTGCC  
TCTCAGATTT CAGTTTGGGA CATTCACAA CTAAGACCTT TTAAACGCAT TTNCTTGCTA ACTCGGAAGA CACATAGTCT  
GCAGCAAGAC ATTCCTATAT TGAAGAAATG AGAGAAAATT TTATCTGCA TCAGGTGGAG AGCAAGGCTC AACGGTGGTT  
GCATTAGTTC CCTCGGAAGT ATTGAAAAAN CTTTGAAATG GGAAGGAAAA TTTTGTGCAC CTAATGTTC TGAGGTACCC  
AGAATGTCTG GGGTT

SEQ ID NO:74: (Length of Sequence = 402 Nucleotides)

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GTGCTCAGTA AATACAAATT GGATGGACTA GAGAGATAGC CCGAGGACA CTGCCAAATA AATAACAAAT TGTGCAAGCA  
 GCAGGCGCT GTAATTAGAC CAAGGAGGAC AGTCAGTTAT TAATATCAGA CACGTGGCAG GGTAAACAGC CACTGAGGGT  
 GGGTACAATG AAGAGAGTCA CTTTCTGCAC CCTCAGGAC TTCCCTTGTG ATGGCCTTCT AAAGAGGGCT GAACAGCACC  
 AAGTGCCTC GCTGCCTCTG GTTCTGCTG CCTCCGCGT GCCTTGGGTG CCCCACAAC AGGGCCCTGG GTCCCTCCCA  
 TGTCCCCCTC CCTCTACAA CCCCACAGC CCTATCTGG CCAGCCATTA TGATGCCTAT CAGTATGAGG CCAGATGAGA  
 GT

SEQ ID NO:75: (Length of Sequence = 454 Nucleotides)

GGACCCGGG CCGCGATGT GGCCAGTAC CTGCTCTCAG ACAGCCTCTT CGTGTGGGT CTAGTAAATA CCGCTTGCTG  
 TGTITTAGTG TTGGTGGCTA AGCTCATCCA GTGTAITGTG TTGGCCCTC TTCGAGTGAG TGAGAGACAG CATCTCAAG  
 ACANATTTTG GAATTTTATT TTCTACAAGT TCATTTTCAT CTTTGGTGTG CTGAATGTCC AGACAGTGGG AGAGGTGGTC  
 ATGTGGTGCC TCTGGTTTGC CGGACTTGTC TTCTGCACC TGATGGTTCA GCTCTGCAAG GNTCGATTG AATACTTTTC  
 CTTCTGNC ACCACGGCGA TGAGCAGCCA CGGGTCGAGT CCTGTCCCTG TTTGGTTGCC ATGCTGCTTT TCCTGCTGTG  
 GACTTGCGG CGTTTGCTCA TTACCGGGTA CACCACGAA TGCACACCTG GCTT

SEQ ID NO:76: (Length of Sequence = 313 Nucleotides)

GCTTTGATAG CTAGTTGTCT AAAAGTGTG NTAATTAAT AATCCACCTN TTTCCCCACT TAAACATCC CTCTTACCAT  
 ATACTAAAT CCNGTAGCC TGGGTCTGTT TCTGGACTCT CCGTCTGTC TGACCCCTC CAGGTACAC TGAGTGAGGT  
 AATGGTGGG TGAGAATCCT CTGGGAATCT GGCAGCTCA CCCNGAGCA GTCCACCCN CAACTCATT NCATCGTTCA  
 GAGTGNCTG AGTNTCTCA CACATTCCT CTGCCAATG CACTTAGGA ACTGTCAAAT TCCAAAGTTT CAA

SEQ ID NO:77: (Length of Sequence = 446 Nucleotides)

CTCAGCGTA GCCCTAAGTC GTTTTCCAA TTAGGAAGC TCACAACGCA GATCTGCATT GTACGTACC AGCTGTTTGT  
 GAACCTTTGT AAGCTGTTC AGGTGTCTCT CAAGAAGGA AATCTTCTGC TTTTGGGAGT GAATCCCCC ACTGTCTTGG  
 GGCTCCATTT CTGCATTTT CTGACTCGA GTGTGACGT CTGGAACGAA CAGCTTGCGA AGGTGTGGG SGGTCTGGAG  
 TTCCCGGCA ACTGTCTCT CCAGACCTT GAGGTCTGC TTGTACTGC TCAATGTGC TCGTACAGAA ATGTGAGCTC  
 CTGCAGCTTT GGTCTCTTC TCGTGGTCT TCGCTCTTC AGCTTCTCTG TAGTCAAGCC TGAAGGCTTC TCTAAGCTCT  
 AACTGGAGCT TCTGATTAA GGTCTTTTGA GCTCATCAA TGGTCT

SEQ ID NO:78: (Length of Sequence = 296 Nucleotides)

AGCCGGTGGC GCAATGGAGA GAATGTGCTT GAGACAGAGC GCCTGGCTGG GGAGGAGGCA GOCCTGGNG CCGAGCTCTG  
 TGAGGAGACC CCTGTGAATG ACAACTCATC CATGTGGTG CGCATCGGC CCGAGGAGCG GCAGAAATAC GAGGAGGAGA  
 TCOGCCGTCT CTATAAGCAG CTINACGACA AGGATGATGA AATCAACCAA CAAAGCCAAC TCATAGAGNA GCTCAAGCAG  
 CAAATNCTGG ACCAGGAAGA GCTGCTGGTG TNCACCGAG GAGACAACGA GAAGGT

SEQ ID NO:79: (Length of Sequence = 285 Nucleotides)

CCTTTCCTGC CTGGGAAGTG ATGACTCGCA GGTGGGCTT GGGCTGGG GCTCCAAGCT GGGTGTGTG GGTAGGTGGG  
 GCGGAGACT TGGCAGGGAT GACCTTGTTT AGGCTGTGTC CATTGGCCAC AGGGAGGAGG CCAGGGAAG CCGAGCACT  
 GACGTAGCCA TTCCAACAG GGCTGGGCA GGCTCCGTTA GCATGTTC A GTTCAACNCC CAGCATGGCC  
 CCGCACTACGCTG GGGCAGGCCA GGAGACACAC TGTTCCTCTG TAGTG

SEQ ID NO:80: (Length of Sequence = 402 Nucleotides)

124

ATGATTTCCTT GCCTGINATA ACCTATGCAC TCACAAAGAT GAACTCTCTG AGAGGGATGA GCAAGAGCTT CAGGAAATCC  
 GAAAGTATTT CTCTTTCTCT GTATTCTTTT TCAAAGTGCC GAAACTGGGC TCGGAGATAA TAGACTCCTC AACCAGGAGA  
 ATGGAGAGCG AAAGATCACC GCTTTATCGC CAGCTAATTG ACCTGGGCTA TCTGAGCAGC AGTCACTGGA ACTGTGGGGC  
 TCCTGGCCAG GGATACTAAA GCTCAGAGCA TGTGGTGGG ACAGAGTGAA AAGCTGAGAC ACTTGAGCAC ATTTTCTCAC  
 CAGGTGTTAC AGACTCGCCT GGTNGATGCA GCCAAGGCCG TGAAACCTGG TGCAGTGCCA CTGCCTTGAC ATCTTTTATT  
 AA

SEQ ID NO:81: (Length of Sequence = 246 Nucleotides)

CATTTTTAAT AGAGACGGGG TTTAACCATG TTGGCCAGGC TGGTCTTGAA CTCTTGATCT CAGGTAATCC ACCCACTATG  
 GCCTCCCAA GTGCTGGGGT TACAGGTTTG AGCCTCTGIN CCGGCCCCGG CCAAAGACTG CCTATCTAA ACGTGTCTGA  
 GGACGTGGAN CAATCACAGC TCTCCNTCT TTCCAGTGGG AGTTTAACAT GGCACAACCG CCTGAAAACC GTTGGNGAT  
 TTCTGT

SEQ ID NO:82: (Length of Sequence = 394 Nucleotides)

GGGAACCCCTC AGCAAAATAT AATGGTACCG CTATTATCAG CCTGTGTCGA GGCCAGGGA TTTTGGGGGA GGTCACAGTG  
 TTCTGGAGGA TATTCCTCC TTCCGTGGGG GAATTTGCTG AAACATCAGG NAACTGACA ATGCGAGACG AACAGTCTGC  
 AGTCATTGTA GTAATACAGG CTTTGAACGA TGACATTCCC GAGGAAAAAA GCCTCTATGA GTTTCAGCTC ACTGCAGTCA  
 GINAGGGAGG AGTCTGAGT GAATCCAGCA GCACTNCCAA CATCAGGTG GTGGCCAGCG ACTCTCCCTA TGGCCGATTT  
 GCCTTPTNAC ATGAGGCAAC TTCGAGTGTG AGAAGCACAG AGGGNTAACA TCACAATCAT CCGTTCAGT GGAG

SEQ ID NO:83: (Length of Sequence = 308 Nucleotides)

ATAAGACCAT TGGCAAAGGG AGAATTCATG AACTGAAAGA TCTGAAGTAA TTTCCAGAA TGTAATGTTA AGAAATAAGT  
 TAAAGGCAG AGCATAATGA GTCTAACATG TGTGATTGAA GTCTTATAAG GAGAGAATTA AGAMCAGGCA ATATTTTAAA  
 GGRATAATGG AGAAAATGGA ATAATTGATG AAATATGTGA ATATATATAG GGACCATATG CATATGAMGG CCGGGGGTGA  
 AATAAAACGA AATCTACTTG TACATACTTT ATGGGATTCC TGCAGCCCCG GGGGATCCAC TAGTTCTT

SEQ ID NO:84: (Length of Sequence = 313 Nucleotides)

CTTTAACTTA ATGGCAATTA AAATCACTG GCAAAAAAA TCACTAGAGA TGTCACTCCA TTATCTTACC AAATAGTGTA  
 TTTTACCAT CTTTACCTA CACCCITGAG TAAGGTGGAA TAGGTTAAAG TTACTGGCAT AATAACACTT CATTTGAATC  
 ATGATAGTAT TTAACATGTT AAACTGTTT AGTTGAAAAG TTCACATGCA ATTTATAATT TAAAAATATG CTACATATAT  
 TTCATAAAW TACAATAGGT CATACTARAC TTIGACTAAA ATTAAGAATG TKTTTCTKTC ATAATAATGC AGG

SEQ ID NO:85: (Length of Sequence = 303 Nucleotides)

TGCTCCGTTT ATTGCTCTAT TCAATGACCA CGAGCGAATT ATAAAAAGAC ACCAAATGTC TCTGTCTGCC GTGGGATAAA  
 TATTTAAAGT CAGCAATAAA GTCACGTGGC TCCAAGRTAA TACATGTTGC CAAAGAGTCA TGCATGCCCT CCTGATGGGC  
 TCTCAACACA CGTATGGWCA TGGGAACACA CGCAGAGCAA CACGCAGTAT GAACCTSTGG GAAGGCCTTA CCACAGTGAC  
 ACAGTAAAT GTCTCAGTA GATCTGRGCT GAGTCCCCAC CCAAACCTTG AGCTCCCCIT CCA

SEQ ID NO:86: (Length of Sequence = 380 Nucleotides)

AAAACAAACC AGCTTTAATA CCAATATAGT TCTCTCTTAA ATACCGTGT TCCAGGACA AATGCAGGGG CAGGCTCTTG  
 GCAGAAAGAG TAGAAAGGAA ATGTGGAACA AAATGGAATG GATGGCCAG GCCCAGGGTC CCTGCCCTGG GCACTAGGGA  
 CTGGGCTGCC TCGGGGATGG GGGAGTGACA GCAGCTCCCC CTGGTCCAGT TATTGCAGAG GGTTCGGGG CTCCCTCC

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TCCCCAGGCC TGAACATTT CTCAGGATTA CTTCAGCCT TCAGCCCCAG CAGGGCCAGG GCCTGGGCTC CTCTGGTCTA  
GGATGGGCCC CTITGCCCAA AAGGCGCTTC AGCTAAGGCG TTGGGTGGG CGGGGAGCCC

SEQ ID NO:87: (Length of Sequence = 280 Nucleotides)

GCCTTTGCTG CTATTGCGA TCGATGGTGA AAGAGATGTC AGGAGCACTT CTCGCTGAG GTGGCTGAGA CGAAGAGGAC  
TCTGCTGCCA GCCTTGCGC ATACCTGGCA ATTAGCCTGT GTCTTCATC AAGCCGGTIT GAACTCTCAA GCATGCTCCT  
GGTAATAAAA GGACTTCCTG AGGAGGGAAC AGAGTGAGAG AACAGGGTGT CGTTCATGCT GGTACAGGT CTGGGAGGCA  
CGATGTGAGC CAAGTTGAGT GGCTTCTCAG GCTGATCTGG

SEQ ID NO:88: (Length of Sequence = 446 Nucleotides)

CCTGGCTCTC TTACACCCYC TCCCACCCGA GGCTCCCAG AGATAGCAGA GAATTCGAAG AGGTGCGCGG GGA CTGGAAA  
GAAGTCCCGG NAGGCGCGCT TCGCAGTCTA CCCCCAGCC TGCTTCCCAG CCTACAYCCA GACCCAGCTC AGACCTTCGT  
GACCACCCCA TCCCTTCTC CGGCTGGCTG GTTCGGGGG ATCCCTCTCT GTCCCTGGCT TCCAGAGGCA GGACAGGCCT  
CCTGGTAAGC CGCAAAGTT GCTGACCTCC TGA CTCTGCTG TGCCCTTTAT TAATATCTGT ATTGCTGATA ACCGTGCTCT  
TGACTATGTG TCCAGGTCA TGTCCAGGT CATGGAGAAG CCGTGCCAC AGTGACCTT CCCATCTTC TGGGGGGGCT  
GCTCTCCATC TGGATCGTAG GAGGATATAG GTGTGTTCTG GACCAT

SEQ ID NO:89: (Length of Sequence = 384 Nucleotides)

GTCCCTCTG GGGACTCTRT TTCCCATTT ATGCTGCTG TGTCCTTAC CAGTTCCTTG CAGGATCCC TCCTTTTAAA  
ATGCCCTTAA ATCTAGCTTT GCCTTGAGA CCCCAGTGG TGCTGCTCCT GCGTTTCTCT TCTGCGAAG CCTGAATCAA  
TGTTTCATCT CCAACCTCT GCCAGTTTG CCGCTCAAAG CTGTGGTGGT CAAGACTGTW AGCCTGGCAG AGCCGCGNGG  
TGAAGGGAGA AGCTCTTGA GCAGGCAGGA TGCCACCGCT GCTTCAGCTT GCCTCCTGCG CCAGTACCC TTTCGCCCCA  
TTGGGCCCCC GTTTCCTCT CCAGGATGT ATGTTTCAAG NCTTGCTCTG TGTTCCTTG TCTG

SEQ ID NO:90: (Length of Sequence = 344 Nucleotides)

TCAAGCTGGA AAGGGCTACT ACCTCATGCT GGAAAGGCT ACTACCTCAA GCTGGAAAGG GCTACTACCT CAAGCTGGAA  
AGGGCTACTA CCTCAAGCTG GAAAGGGCTA CTACCTCAAG CTGGAAAGAG CTACTACCTC AAGCTGGAAA GGGCTACTAC  
CTCATGCTGG AAAGGGCTAC TACCTCAAGC TGAAAGAGC TACTACCTCA AGCTGGAAAG GGCTACTACC TCAAGCTGGA  
AAGGGCTACT ACCTCAAGCT GGAAAGAGCT ACTACCTCCA AGCTGGAAAG GGCTACTACC TCATGCTGGG AAAGGGCTAC  
TACCTCAAGC TGGACAGGGC TACT

SEQ ID NO:91: (Length of Sequence = 364 Nucleotides)

GCCCCAGGGT GAGGGCTATG AGGGGTCAGG GGTGAGGTT CCCAGGACC TAGTCTTGT CCCCCTCCCT GGTGCTAAAT  
AAAAGTGAAT AAATACTAAA TAAATACAAC TGGGGCCCAG GCCCTCCCTG CCTTCCCCCT CCTCCTGTG ACCCGCAGCA  
GAGGGGGCAG TTATAGATGA GGGCTGTCTG TCAGCCCCCT CCATCCACTA ACCCATCACT GCCTCCAGG GCAGGAAACC  
AGGGCAGGGC CAGCCTGCGC ATTAGGGCAG AGAGGAGGGG CAGGTCTCAC GCCACAGCC CCTTCCACT TGAGTCTTAG  
CATGAGGCAG CAACAGAAGC TCTCTCTTCC TCCAGCTAA GTCC

SEQ ID NO:92: (Length of Sequence = 218 Nucleotides)

ATTTAATAGA AAATTAATAA AATAAATAAT ATGAAACAGA CTGATAACGC TGAGCTGGGC AGGCCAGGC CAGTCTAGTA  
CAAAGTTAAG GAGGTAGGGA GGATGGTGGG GAGGAGGGG CGGACTACCC TGCAGGAGCC GGGAGGCTGC TCAGACTGTG  
GTGATGTCAG GAAGGGCCGC ACCTTTGGC ATGGAAGATG CACTAAAAAA AGAGAAAG

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SEQ ID NO:93: (Length of Sequence = 364 Nucleotides)

GCTTTCAGG GAACAAAGAA TCGGCCTGG AGTGCCCTGG AGAAGGAGGT GGAGAGCATG GGGGCCCATC TTAATGCCTA  
 CAGNACCCGG GAGCACACAG CTTACTACAT CAAGGCGCTG TCCAAGGATC TGCCGAAAGC TGTGGAGCTC CTGGGTGACA  
 TTGTGCAGAA CTGTAGTCTG GAAGACTCAC AGATTGAGAA GGAACGTGAT GTGATCCTGC GGGAGATGCA GGAGAATGAT  
 GCATCTATGC GAGATGTGGT CTTTAACTAC CTGCATGCCA CAGCATTCCA GGGGCACACC TCTAGCCCAG GCTTTGGAGG  
 GGCCCACTGA GAATGTCAGG AAGCTGTCTC GTGCAGACTT GACC

SEQ ID NO:94: (Length of Sequence = 423 Nucleotides)

CTTCATACTA GAACTGTCTG CCATCTTTAT TTCTTTGTTT TCAGGAAAAT TGGAGAGAAA AGTATTTCCTT TTTTAAAAAT  
 GATTATTATA CTTTAAGTTC TGGGATACAT GTGCAGAACG TGCAGGTTTG TTACATAAGT ATACACGTGC CATGGTGGTT  
 TGCTGCACCC ATCAACCCGT CATCTACATT AGGTATTCTT CCTAATGCTA TCCTCCCTT AGCCCCCAC CCTCCAACAG  
 GCTCCAGTGT GTGATGTTC CCTCCCTGTG TCCATGTGTT CTCATTGTTC AACTCCACT TATGAGTGAG GGACATGCAG  
 TGTGTGATTT TCTGTTCCTG TGTACTTTG CTGAGAATGA TGGCTTCCAG ATTATCCAT GTCTTGCAA AGGCATGAAC  
 TCATCCTTIT TATGGCTGCA TAG

SEQ ID NO:95: (Length of Sequence = 405 Nucleotides)

AACAGCCCC GATCTGCATA GCCTGTGAAA GCCACGGGG ACATCAGTAA CCTTCTGCAG CCACCATCCA ATGCCATTAC  
 TGTAAGTGA GACTTGGCCA CTGTAGCCTG GGCCTGCTGC AGGAGCTCTT CAGAAAGGCA CATGAGGACC ACGTTTGCC  
 TCAGTTTCTG GTAAACACA AGGTCTGGAG TGCCCCGCA AAGGTATTG ATGGACTTCC TGCCAGTGAC AGAGCATGTC  
 TATGCAAC AATTCTCTCA GTTACGTTCA GCACCTAAGA ACGGCTAATG NCAATAGGAT CTTTAGCAAC TTTTTCACAT  
 CATAGAAGGT GCAATCGCTC ACTTGGGAAC ACTACTGAGA GTGACTTCTC TTTTAAATTT GAGTAGCAGA TGAAAAITTA  
 AAATT

SEQ ID NO:96: (Length of Sequence = 173 Nucleotides)

GAAGACAATA CTGATGCCAG CTCTTTGTAA TTGTGAAATC TGTACCCAAA CCTCTGGATT AGAATCTCCA GTTGCTACT  
 GTAAATACTG GAATTACAGC AAAGGATATG GGGACTGGGC TGCTTTTCTG TATTGTACAA GCACTATTCT AGATATTAAA  
 GAAATTTAAC CCC

SEQ ID NO:97: (Length of Sequence = 337 Nucleotides)

ATGGCGCCCT ACAGCCTACT GGTGACTCGG CTGCAGAAAG CTCTGGGTGT GCGGCAGTAC CATGTGGCCT CAGTCTCTGT  
 CCAACGGGCC AAGGTGGCGA TGAGCCANIT TGAGCCCAAC GAGTACATCC ATTATGACCT GCTAGAGAAG AACATTAACA  
 TTGTTCGCAA ACGACTGAAC CGGCGCTGA CCTCTCGGA GAAGNITGTG TATGGACACC TGGATGACCC CGCCAGCCAG  
 GAAATTGAGC GAGGCAAGTC GTACCTGCGG CTGCGGNOGG ACCGTGTGGC CATGCAGGAT GCGACGSSCC AGATTGGCCA  
 TGCTCCAGTT CATCAAG

SEQ ID NO:98: (Length of Sequence = 212 Nucleotides)

TGAAGCCCAA GNAGTIVGTG AAGACAGAGA ATGACCACAT CAACCTGAAG GTGGCCGGGC AGGACGGCTC CGTGGTGCAG  
 TTCAAGATCA AGAGGCACAC GCCGCTGAGC AAGCTGATGA AGGCCTACTG AGAGAGGCAG GGCTTKTCAA KGAGGCAGAT  
 CAGATTCAAG TTCGACGGGC AGCCAATCAG TGAACTGAC ACTCCAGCAC AG

SEQ ID NO:99: (Length of Sequence = 26 Nucleotides)

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CCTTTTAATA ATAATTCTGC TGCTGCTGT GACTAGAAC CCATGCCTAC TGCTTGGGGT ATAATGTAGT AAATGTAGTA  
 AAAACAATAT CCGCCGGGCG CGGTGGCTCA CGCTGTGAAT TCAGCACTT TGGGAGGCCA AGGAGGGGGG ATCACGAGGT  
 CAGGAGAGCG AGACCATCCT GGCTAACATG GTGAACCCCG GTCTCTACTA AAAATACCAA AAATTAGCCA GCGGTGGTGA  
 TGGAGCGCTG TAGTCCCAGC TACTC

SEQ ID NO:100: (Length of Sequence = 333 Nucleotides)

AAAATGCTCA CAGTGGTCTT CTCTGGCCGG TGAGCTACA GCTGATCTTG TCAGAGACAA ACGTTAGTTT TACTGAGTCA  
 CCCAGAGCCC TGTGCTGGTG CCTGAGGGTT TGTTCATGG GACAGTCTCC ACAATTCTC TGGGGAAGGG CCACAAATCC  
 CACAGTGTGT CCCAAGAGGG CTGGAGTAGG CGGAGTCCCC AGCAGCTGTG GCATGACCAG CCATCTCTCT CAAAACAATT  
 GTTAACAAGC CTCTGCAAG TTAAGGTTC ACATGGTAGC CGTGGTACAG AGGCATTCT CTAGGGTGGG AGAGGCTTGT  
 GCTCTACACC AGG

SEQ ID NO:101: (Length of Sequence = 156 Nucleotides)

CTCTGACTTT CCTGTGGNIT TAGAGCCAAG CTCAAGGTAG TAGGCCGTAG GGNCTTATTT TATTTTCAA CCCCCATCCT  
 CAGAGCGCAG ATACATGCAG AGGCTTCTGC CAGGCTACCA CGGGCCCTTA GTGGGAACAG GTTGAGACCA GCATTT

SEQ ID NO:102: (Length of Sequence = 331 Nucleotides)

CGAAAGGGG NNNATGGCC ATCTTTTATC AGAAAAAGTG ACAAAACGGG AATTTAAAA ATGAATTTTC NNTCTGACTT  
 TATTNNAAA TACACTTTCT TTTTNNAAA ACCAATACAC TTTCTTTGAG GATGACAGTA TTAGGAAATC CAATTNNACA  
 AAAATACTA CATCTAGTCT GGGGTAGATA TATTTATTTT TGGTAACATA CATTAGTGG CACTAATTAC ACAGTACTA  
 TAAGGTAAT AACATGAAC CACAGAACTG TAATCTGCC ACAGCTGCAT GAACTTGGGC TTTCTGGTT GAGCCCATTT  
 TCAAAAACT G

SEQ ID NO:103: (Length of Sequence = 316 Nucleotides)

AGCCACTGCG CCCACCCCA TTGGGGIN ANCTCAGCTC ACTTCAACT ACCCCCTCCA AGTTCAAGTG ATTCTCTAC  
 CTCAGCTCT TGAGTAGCTG GGATTACAGG GGTCTGCCAC CACGCTGGGT GATTTTCCTA TTTTGTAGTG AACTGCAAT  
 TCACCAGGT GGCCAGGCTG GTGTGAAT CCTGACCTCA GCTGATCCAC CGTCTCGGG GTCCCAAAGT GTTGGGATTA  
 CAGGTGTGAG CCACCACACC AGGCCATAT TTTCTTTAG ACATGCAGGC AATGTTGGTG GGTGTCTG TTAAGA

SEQ ID NO:104: (Length of Sequence = 308 Nucleotides)

GTTTTCTCTG CATCTATTGA GATAATCATG TGGTPTTGT ATTGGCTCT GTTTATATGC TGGATTACAT TTATTGATTT  
 GCGTATATTG AACCAGCCTT GCATCCCAGG GATGANGCCC ACTNGATCAT GGTGATAAG CTTTGTATG TGCTGCTGGA  
 TTGPTTTGC CAGTATTTTA TTGAGGATTT TTGCATCAAT GTTCATCAAG GATATTGNC TAAAGTGTG CTGTATTGAG  
 GAAACCCATC TCAGTGCAG AGACACACAT AGGCTCAAAA TAAAGGGATG GAGGAAGATC TACCAAGC

SEQ ID NO:105: (Length of Sequence = 355 Nucleotides)

GGCCTTCCTC AATATGTAGG CGCCACTTTT TCTCCCTGTG CCCACACCTG GTCACCCCTC TGTGCGCGAN ATCCCACTGT  
 CTCTCTGGGT GTCCAACTT CCTCTCTTA GGAGGACACA AGTCAGATTG GATTAGGGCC CACCCCAATG GCCTCATTTT  
 AACTTAATCA CCTCCCTTTT GTTGGGCTT TTTAACTTAA TCACCTCTTT AAAGACCTTA TCTCCAATA AGGTTTCAIT  
 CTGAGGTATA CTGGAGGTTA AGACTTTAAA ACACGAATTT GGAGGGGACG TAATTCAGCC CATAACAATA ACAATAATGA  
 CATCTACAA CTTACTGCCA CCACCAAGCT TGCTG

SEQ ID NO:106: (Length of Sequence = 355 Nucleotides)

GGATGAGGTC GCCGGGATCG TGGCTGCACG CCACTGCAAG ACCAACATCG TCACAGCTTC CGTGGACGCC ATTAATTTTC  
ATGACAAGAT CAGAAAAGGC TGGCTCATCA CCATCTCGGG ACGCATGACC TTCACGAGCA ATAAGTCCAT GGAGATCGAG  
GTGTGGTGG ACGCCGACCC TGTGTGGAC AGCTCTCAGA AGCGNTACCG GGCOCACAGT GCCTTCTTCA CCTACGTGTC  
GCTGAGCCAG GAAGGCAGGT CGCTGCCTGT GCCCCAGNTG GTGCCCGAGA CCGAGGACGA GAAGAAGCGC TTTTAGGAAG  
GCAAAGGGCG GTACCTGCAG ATGAAGGCGA GGGAC

SEQ ID NO:107: (Length of Sequence = 273 Nucleotides)

GTGTCTCTTT TAAAGAAAAC ATACTTTATT TTGGTCTAAA TTGTGAAAAT ACCCAAAACA TTTGATAGAA ATTGAACCTT  
GTCAACAGTG TTATTTATAC TAAGATCAGG ACAGTTCCTT GAGATCATAC TGTTTTATTA CTAAGTTTGG CCTTTGTTTT  
ACAAATGTAA TGTTTCATAT TATTTGAATT TTAAGATTGG TTAAATGTTA ATGAAAAGCA ATCCAATTGT TANTTTTTAG  
TAGTGCCCTT TCTCTGTATG CCTTAATTTT ATT

SEQ ID NO:108: (Length of Sequence = 359 Nucleotides)

ATTTTATTTT CTTCATCGA AGAAAATGTT AAAGAGTATC TGCAGACACA TTGGGAAGAA GAGGAGTGCC AGCAGGATGT  
CAGTCTTTTG AGGAAACAGG CTGAAGAGGA CGCCACCTG GATGGGGCTG TTCTATATCC TGCAGCATCT GGGAAATGGAG  
TGGATGATCT GCAACAGATG ATCCAGCCCG TGGTAGATAA TGTTGCTGG CAGATGTCCC TGGNTCGAAA GACCACTGCA  
CTCAACAGC TGCAGGGCCA CATGTGGAGG GCGCATTC AAGCTGGGCG CATGAAAGCA GAGTTCTTTG CAGATGTAGT  
TCCAGCAGTC AGGTAAGTGG AGAGAGGCCG GGATGAAGG

SEQ ID NO:109: (Length of Sequence = 360 Nucleotides)

TTTATNAAG CAGTTAACT TAGCATTAA TAACACTCTT TAAATGGTAC ACCTATGAAG CAAGAGTTAA ATATAAACCC  
AGTCTAATCC TGTACACTTG TGATTAAATG TGACAATCTT AAGTTGCTCA CTCTTTTCCC ATTTACCAAT TCAGAGAAAG  
CCCGTTTCTT GTTTTCTCTT CACCACTTTG CCTTGGCATC ACACCAACCC TGCTCTGGGC TTCAGCTGCA GATCTTCCC  
AGCCCCCTCT CCCAGCTGGG CTGACTCCAG TCCAGCCCC AGTCTCCACC AACTGAGCAG CGTACGAGG GTTGTGTCTG  
GCTTCCAGCA TCTACCAACC CTTCAGAGCA ACTT

SEQ ID NO:110: (Length of Sequence = 364 Nucleotides)

TCTCAGAGGG GCTCTGGGGG TCATTCAAGG GGGACTTCTA GCTTCTCTCT GGAACCCCTT GTCCAGAGCA AAGCCAGGTT  
TCCAAGGTCC CCACGGCAAG GCTGTGGGT GCTGGCAGCA AGAGGTACAC AGCAGTTCTC CCAGCTCACA GCACTGACCT  
CAGATCTCCA GCAGCAAGGG CCGCACTCTC GTGCCACAA GGGCCTTGCA GAAATNCTCC GGTCCCTGGG NCTCCCCCGG  
CAGGAGGGGC GGGGCTCTTG CTTGCACTGA GGCCACAGCA CTAAGCGGCT TCAGTCACAT GCTTTTCAGG TGAATCACTC  
CAAATTCAGT GAGGAGGGCC ACGACAAGGA AGTTCAGGTA GAAG

SEQ ID NO:111: (Length of Sequence = 455 Nucleotides)

TTTTTTTTTT TATATTTTAA ATGGAATTTA TTCTATCAAC TGCTGAGAG GACACAATGG GGGAGGGGCT TCGGACCACA  
GCAGGAGCCC CGACTGCCCA CTTGAGGGCA GGGAGAGCCT GACCCCATTT GCCCAGGCC TGGCTCTGTA ACCATTAAAC  
TCTTCCCCCA ACTAACACCA ATGAAAACAC CATTCCACGT GACTGGGCTG TGTGTTTGCC TCTGTGACAT GGGGACCCCT  
GACCCTAGGG GTCTCGCCTG AGCCAGACCT GAGGGACCCA CCGCGTAGG ATGGAGGAAG GTTTAGGCCCT CCCTTTGGCC  
AGCCAACGCC GGGGGTGGG GCAGACCTTG GGAGTGGGCC TTACAGACCA GCCACAGGTA TTTCTTAGGC AATTGACAC  
ATTTTATTAC AAAACCACTG TACATTCAAT CCTAAAAGG TCATTTTCAG TAAAA

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SEQ ID NO:112: (Length of Sequence = 398 Nucleotides)

CTGATCTGAC AGGAGGTGTA GGTGAGGAG TAATGGAAGT SATGGGGAAC AGCTGTAAAT ACAGATAAAG CTTTACTCAC  
 TCGCCACCC ACTGCTCATC TCTGCTGTA CTGCCAGTT CTTAACAGAC AGCAGACAGC TACTGGTCTG TSGCCCAAGG  
 GTTGGGGACC CTTGACATAG ACTAAACAAT TCACAATGTT TATATTAAAC AACTTATTCC AAGTTTCCAT TTTAGACTCT  
 GGAACATCTG ACATGGTGAA TCCACAGGTA GTAAATSGGA AGGGAGATAA CAGACAACCT GACGGCCGTG GAAGACGCAC  
 TGGGGGGGCA CTGTGACGG GTCTGGGAC AGACTTCACA TCTCCAGACT GGCACAGTGG GCTCACACCT GCCTCCCA

SEQ ID NO:113: (Length of Sequence = 444 Nucleotides)

ATCAGTGTCA GTGTCTAACA GAAGGGTCTG TTAAGGATGC TTCTGATTTA ACCAAAAGAT TAAGCTTCAG AAACAATCTA  
 ACATACTCAA AGGAGCACCA AATTATCAAC CGGCTACAAG GATGCAAAGG ACCTAAACAA CAGATGTCAA AGGGCTTGTA  
 AAAACTGGAG CCAGCAACCA TTCCACTTGA AGGAATCCAT CTCAGGGAAA TGCTGGAATC CACACACAAA AGCAGGTGTG  
 CAAATAATCA CTGCAGCAG CCTTCTAATA GTGAACAACA GAGGCAATCC AAATATCCTT CAACAGGGAA CTGAGTAAAT  
 ACCAACTATG GGCATATCCA CATAAGGCTC TCTGCAGTCA TTAATAAGGA TTGCACCTAC ATGCATGTCT GCCATGGAGG  
 TCTTTTAGGC CAATGGTTCC ACTCGGAAGG GCAACCACCA ATTA

SEQ ID NO:114: (Length of Sequence = 472 Nucleotides)

TGGGGCCCCA ACGGAGACCT GGGGATGCG GTGGAGGCGG GAGCGGAAGG CGAGGAGGAC GGCTTCGGGG AAGCAGAATA  
 CGCTGCCATC AACTCCATGC TGGACCAGAT CAACTCCTGT CTGGACCACC TGGAGGAGAA GAATGACCAC CTCCACGNCC  
 GCCTCCAGGA GCTGCTGGAG TCCAACGGC AGACAGGCTT GGAGTTCCAG CAGCAGCTCG GGGAGGCCCC CAGTGATGCC  
 AGCCCTAGG CTCCAAGAGC CCCAACCAG GACCAACCC TGCTCCCTG GGGCTAAGCT CTGGCCTGGG GCACTCACCC  
 CCTGGCTTAG ACAACTTCTC AAGGGCTTGG CCTTCAGGGG ACCCTTGTGG GTCTTGCTT GCTGGGGCCA CCTTTTCTTG  
 CTTGGGCTT CCCCTTGGC CTACCTTGGG GCAAGCCCC TACCAACTTT GGATTGCCTT CTTGGGGGCC AA

SEQ ID NO:115: (Length of Sequence = 293 Nucleotides)

CTNGGGGCA TGTTGGCTGAT TTCCATCACC TTCTTCCAT TKGCTACGGC GACATGGTGC CCCACACCTA CTGGGGGAAG  
 GGTGTGTGCC TKCTCACTGG CATCATGAGA GCTGGCTTTA CCGCGCTCGT GGTTGGCTGTG GTTGCTCACA AGCTGGAGCT  
 CACCAAGGCT GAGAAGCAG TGCAACACT CATGATTGAC ACTCAGCTCA CCAAGCGGT AAAAAACGAG GCTGCTAACG  
 TTCTCAGGGA GACGTTGGCT CATCTACAAA CATACCAGAG CTGGTGAAG AAG

SEQ ID NO:116: (Length of Sequence = 448 Nucleotides)

TTTGAAAATT TAGAGGATAT TTATTTCTCA GGAAGGTGCA CAACAGCTGG CAGGCACCTG TTTCCCTGCT CTAGGGGATT  
 CCTCTCTCCT TTTCACAGAA ATCCCTCTC TTCTTAGAAG TGCCCATGG AGGCTGGGAT GTGAAAAGAA ACCATACACA  
 ACACTCCAGA GCCTTAAAAA AATAAAGCAA CAACCTCTC CACACGAATA CACTTACAAA ATAAATAGAC GGATAAAGA  
 GAGGCCACGT GCCTCCATC CCGGCTGTAG GGCTGCTTGG GGATAGTGGG GCTGGGTGGC TGGTCCAC TTCTCCAGC  
 CAGGATGATC CAAAGGCTAA ATGGGATGGA AGGGCCTGG CTTTCAGAGA GAGGGTGGG CAGGCTCTC CTGGTACTCA  
 GCAGGGAGGA CACTGGGGCA CGGTAGGGG TCCAAGGGCC ACTTAATA

SEQ ID NO:117: (Length of Sequence = 551 Nucleotides)

GAGACGGAGG CTGCTCTGT CCCCAGGCT GGAGTGAGT GCGAGATCT CAGCTCACTG CAAGCTCCGC CTCCGGGTT  
 CACGCCATTC TCTGCTCA GCCTCCGAG TAGCTGGAG CCAGCGGCC CAGCCTAAAA AACTTTTCAA GTCAATATTA  
 CTACGATTTA ACATTAGAGT GTGACATGT GATTTAATCG CTATAGCTAA AATACGTCAA ATATACGTTG TCAATGTCTT  
 GAACATGAT CTAACCTGA CAGGATGAAG GAAAGTAATA TTCTTTCAGT GTAGTTCAGG AGAGCATTTG TTTTCTTTT

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TACCAATTAA CCCATCATTG CTTTAAACA ACCATCTGAA GGAGCAGAGA GGCAGGGTAG AAGACAGAAG GGGGTCTATG  
 TGGGTACTAA AGATGTTTCT GTTTTGAAT ATTGTGTGTG TGTTGGTTTA TGGTTTGCTT AAGGGATCAA AACCTGGAAA  
 AAATGGGATT CCAGGAATGG CTCGTATATT TTGCTGGGT TCCAGCTTGT AATGCCTACT GCCTTGGTTC A

SEQ ID NO:118: (Length of Sequence = 426 Nucleotides)

CCCCACCCA AAATCAAAC TGAAGGTAGT GTCAGTGTAT ATATGNGTC CCTGTGCTG AAAGTCAAAG CAGCTTCATT  
 TTGGGGCTC AAGAGCTCCA GCTCTGGGCT CTCACCTCT AAGCCCATGG GCAGTGCCG CCCAGTGGTG TGTATAGATC  
 GGAGGCTGAG GGCCTCACC TTAGCTGAGC TGTCGGTGC TGGGGAGCCT GTGCAGGAGG GTACAAGTAG GAAAGTGCCA  
 TCTGCATGGG AAGAAAAATG CAGCGTCTT GGTAGTGGG ATGGGGTCCA GGAGACCCAG GGAGCTTGCC CAGAGGGACC  
 TGAGTGGCAT TCCTGTAGGA AAGCAGCCCA GATCTTGGG CCGTAACGGA TGTCTGGAA GTTTTGACTT TGAACACCA  
 GGTCACATG TTAACAAGCT TCTTGA

SEQ ID NO:119: (Length of Sequence = 434 Nucleotides)

TTTTTCGGIT AAAAAGGCC AAAACITTTAT TTAGTTTICA GGGAAATATA AGATGCATGT AAACATAAAA TACAAAACAA  
 AACCCTAATC TTACAGTCTA GAAGCATGCC AAGACAGAGC ATTTCTGCA GACCAAAGAG TCCCGTCAA GTGATAAAGG  
 ACACCTGAA AGTGGCAGGC CAAGGGGCTG GTCCCTTCCC CAAGGGCACT GCATTTTGT GATGAGATTA AAAACAAACC  
 AACTCCACTA TTAATAATGC TAGAAACATG GGATAGTTTA GCACCACCAT TGATTCTGGC AAATATTTCA GCACTCACAT  
 CGACTGCACT GAGTTTAAATG TCCTTCTCC AGTTTCTCTG CTGAGAGGG AAGGAGGGAA ACCTGGGCGG AAGGGGCTCC  
 TCCTGACCCC ACAGGGCCAC TAGGAGCTTG GAGG

SEQ ID NO:120: (Length of Sequence = 276 Nucleotides)

AGGAAGTGT AGCAAATGCT ACCATGTGGA AACTCAACT TTATTTGCTT TATTTATATA TTAAACAATT CTAAGTATT  
 TACTTCTGC TTGACAAAA AATGAAAAAT ATAGGGGCAC TGACTGACTC CTCCTTAGGA GAAAAGGTT ATATGTACAG  
 CTATGGAGAG TTACGGTTC CCTTTAACA AAGGCAATA TTAATAAAA AGGGCTTCAT CGGTCAAAA AGGGCTAAGA  
 GCTGCAAGCA TTATTCACA CTGTACATCG GGCCCC

SEQ ID NO:121: (Length of Sequence = 554 Nucleotides)

ATTTCTTCC TTAATCATAT CTGATGCTGG GATGIGGGTA ACCCCAACT GAAGGCAGCT GCTAAATCTC AAATGCTAAA  
 AAAATACGTC AATTTTGACA TCAGTGAGTC AGATCAATAC ATCCTCTGGG GCTGATTTTG CTCACAGTT AGGATGAGCC  
 ATCTCTAAG CTGCAGGCTC AAATGGGATT AACTGAATC TATACCTGGG ATGGGCCATG GACTGAGCTG TCCATGCAGA  
 AGGACCAGGC TGTCATGCC TTCCCTGCC TTTTACTCAC CACTGCACAG CAGCCCCAGT GGGCCTACTG CACATGTCTA  
 GGAGAAATCA CTCIAAGAAA ACCAACAGGA ACAGGCTTTA GGCAACAAGA GACGTCTCAC TGCACTCCT CCCACGTCAG  
 AACTTGAGTA CTGGGTCTTT GCAGCTCAGA GCATTCCTCC CTCCTTTTC CTGCCGAAA GGCTGCCTT TTCCTGAGAC  
 ATATGGCACT CCATGCTGCA AGTTTCAAGC AGATGCAGGT TCCTATGGG CTTTTTGCTC AAAGAGCTTT GGT

SEQ ID NO:122: (Length of Sequence = 238 Nucleotides)

CACCTAAGCA GGTAGACATC GCAGAGTCA GATGCTTCC AACATGACAC CTGAACATCT TCCTTTATGC AACACCCAAA  
 CATCTTGGCA TCCCCACCC AGGAAGTGG GGGAGGAGT TATGATCCCT GGGCGCTTG GCAGAAATGA GAGCTGAGGT  
 GTCCCTCCCC TGCTAGTCAC CTACCAGGTG TCTGAGCAGC TGCATGCTCC CTGGCTCAAG TGGGCACTGT ACCTTTTG

SEQ ID NO:123: (Length of Sequence = 244 Nucleotides)

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ATCCAGGCTT TCATTCTAG CCAACCTCA AACACCACCA ACTACAAAGA AAATTTAAAA GTCTAATTG TAACCTTCAG  
ATAAGTATAA ATTAGTTTTT TCTAGGCTTT CATTATTTGG CTCTTATAC AATCTATCTT GTAAAGTACA TTCTCTTAAA  
TTTACATTAT CTAAAITTAA GGCTAAGCAT TATTTAAATC ANTATATCAT ACAATATTTT ATGGCAATAT GCACATATTT  
ATAA

SEQ ID NO:124: (Length of Sequence = 330 Nucleotides)

CTCAGCGTAT CATAGGCGTG CTCACCTCC TCCCCAGCT CCCCCCGC AGGCAGGTGG TGTAGGATAG AGTGGTGCAT  
GAAAGGGGGG AAGCCCGAGG GCGCCGCTGG GAAGGGTGGT GCCCCGTAAA GGGCATCCCA CTGGCACTGT GCCTCANCTG  
CCGCTTTCTG CTTAGCTCA GCCAGTGGC GCGCTGCTC TTCAATCACT TGTGTCCCT TCTGCTGCAG AGCTAGTTGG  
CGCTTTGGTC TCGATGTCTT GCAGTGTGGC TGCCAGGTTG CAAGGAAGGC TGCCCGGTGC CATTCCTGGG GTGAGTAGGA  
GCGCTCTTTT

SEQ ID NO:125: (Length of Sequence = 281 Nucleotides)

CCTCTCTCCC TTCGGTCTC CATTTACGA GCCACAGTAT TTCTTAAAGC TCGTTGGCAG CCTGCACCTT GCTTATCTT  
GGGAGACAG AGTTTGCATC CTATTACAAC CCATAGTTTT TGCCATAACA TGGTGAGAGG AACCATCCCT CCCAATCCCA  
ACCTCAACCA AAGCITAGAA AAAGTGCCAT CNTTAACCTT TCAGAATCAC TCATAAGTAA ATCCTATAGC AGTCTCTGCT  
AATGCAAAIT TCAATGTGTG CCGCTTATT AGGTGACTTT T

SEQ ID NO:126: (Length of Sequence = 266 Nucleotides)

CTTTAATGA TGTGGTCTG GTGGGATTA TAAAGGAGA TGGACCCCTG GNAAGATGCT TTCTMAACC ACAACCCACA  
CATTGGGTCA CCATTTCTC TTCTCTCC TTCTGTGGT GCGCGAGAC CTGTAGGACC TTCCCTCCCT TTAGGGTCT  
GTAAGGCCCC TTTCAGTCC TCAGAGTCCA TTCTCTCTT GTGCTGAGG CCTGCAGTGG GGACCATATA CTCTGTGGC  
TCTTAGTTG CTGTGCGTC TGTTTT

SEQ ID NO:127: (Length of Sequence = 435 Nucleotides)

GTCTGGTCT ATTCAATTTG TAGTIGOGAG AAAAGGAATG AACCGTACT ATGGCAATTC ACCGTGACGT GTGATAATTT  
AGTTTCTAT GAGTTTTCAC TCTAGGTAA AACCTAGTTA TCCTAATTA TAATTAGTTA TGGATGATAT AGTAATTTTT  
TTTTTTTTG ACTGCGTCTC ACTGTATTC GGGCTGGAGT ACAGTGGCTG ATCAGATTC GGTGCAGCT CGACCTCCCT  
GGGCTCAGT ATTCTCTGC CTCAGCTCC CAAGTGGCTG GGGATTATGG GCATGCACCA TCAATGTCTG GCTAATGTTT  
GGTGTGTTTT TTTATAAAGC CAAGGGTTTT GCCCATGTT CAAGACCCCG GGGCTGGTCC TTGAACCTCT TTGGGGCTTC  
AGGCAAGTCC TCCACCTTC GGCCTTCCC AAAGT

SEQ ID NO:128: (Length of Sequence = 471 Nucleotides)

TTCCCTTCCC AAGGACTCGA CTTGAGAACC GCCATGTACT CGGAGATCCA GAGGGAGCGG GCAGACATG GGGGCTGAT  
GGCCCGGCCA GAATACAGAG AGTGAATCC GGAGCTCATC AAGCCCAAGA AGCTGCTGAA CCCCCTGAAG GCCTCTCGGA  
GTCACCAGGA GCTCCACCGG GAGCTGCTCA TGAACACAG AAGGGGCCIT GGTTGGACA GCAAGCCAGA GCTGCAGCT  
GTCCTAGAGC ACCGCGCGG GAACCACTC ATCAAGAAGA AGAAGGAGGA GCTGGAAGCC AAAGCGCTG CAGTGGCCCT  
TTGAGCAGGA GCTGCTGAGA CGGCAGCAGA GGCTGAACCA GCTGGAAAAA CCACCAGAGA AGGAAGAGGT TCACGCCCCC  
GAGTTTATTA AGTCAAGGGA AACCTTCGGA GATTTCCACA CTGACCAAG AGAGAGAGAG CTTTAGGGCC A

SEQ ID NO:129: (Length of Sequence = 186 Nucleotides)

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GCCTTTAACA TCCTCTGCCA ATRACTGGCC TCAAATCACC AGTGGAACTT TTTCAAAAAA TACACCATTG GCTCTATGTA  
GTTCTACTGA TCTRAAATAT CCACGTGTGG GCCAGGAGCA CTGGCTCATG CCTGTAATCC CAGCATCTTG GGAGAGCGAG  
GAAGGAGGAT CATTTRAGCC CAGGAG.

SEQ ID NO:130: (Length of Sequence = 307 Nucleotides)

ATAAAATACT TAGGAATATA CCTAACCAAG AAGGTGAAAA ACCTCTCCAA GGAAAACTAT GAAACACTGC TGAAAGAAAT  
CATAGACTAC ACAAATACAT TTCATGCTCA AGGATGGGTA GAATCAATAT TGTGAAAATG GCCATACTGC CAAAAGGGAT  
CTWCAAAATC AACGGTATCC CCATYAAATA CCACCATOMT TCTTTACAGG NITCGGAAAA GGAATTCTAA AATTCAATATG  
GGACCCAAGA CGGGGGCCGC ATAGCCCATG GCCGGCTTAG S<sup>2</sup>WAAGGGA CAAATCTGGG AGGCCTT

SEQ ID NO:131: (Length of Sequence = 184 Nucleotides)

CCAGGTGGA TGGAGTGCA TGGCAGATC TCGCTCACT TACCTCCC AGGTTCAGC AATTATCCTG TCTCAGCCTC  
CTGAGTAGCC GGGATTACAG GCACGTGCCA CCACACCCAG CCAATTTTTG TATTTTTAGT AGAGACGGGG TTTCACCGTG  
TTAGCCAGGA TGGTCTCAAT CTCC

SEQ ID NO:132: (Length of Sequence = 270 Nucleotides)

GCNGGAGGCG GTCGAGGCGC AGGAGCTATT CTACACGCC GAAATGGCTG ACCCCAAGTC AGAACIMTTC GMENAGACAG  
CCAGGAGCAT TGAGAGCACC CTGGACGACC TCTTCCGGAA TTCAGACGTC AAGAAGGATT TCCGGAGTGT CCGCTTGCGG  
GACCTGGGCG CCGGCAAATC CTTCCGNNC ATGTGGGATG TOCACTTTAA CCCCACCACA GCCTTCAGGG CACCCGACGT  
GGCCCGGGCC CTGCTCCGT AGATCCAGT

SEQ ID NO:133: (Length of Sequence = 529 Nucleotides)

CTTGCACTAC ATAGCATGT TATTACTGAT AGCTTTTATA ATCTGCCAAA TAACATAGAA TGTAGCCTCA AAAGGATGGT  
CGAGGGTTG CAATCTTTCT TTCTCCACCC AGTGGTGTGG AGCAACTCTG TGCCCTTAAAG AGGSCACCAT GGAAAGAAAC  
AAAAAGGAAT CTCTTTCAA ATGCTGGAAA TTAGGCTTAG CTCACTACTT TCAGGATAAA GACAACTGCA TCTAATTAAG  
TCCACTCCAC ATTTCTTTGG ACTCTAAGTA TTCTGCACCT GAAGGCTAAA TTGAAGTGGC TCAGCCCTAT CTTTTTTGCC  
ACATCTTTAA TTACAAATCT ATTTCTTTCT CCTTTCATTT ACTTCTCTTC TCTTAAGTAA GAAATGTGGG AAATGAGACT  
GGCAGTTTGG TTTGTTTGCA TGTGGGTGTC CATTAGGGT CTCATCCTAT GGCCCTTTT GGAAATGTG CCTTCTACT  
ACACACCTGG GAGGTTTCCC CAAGGCTCAA CCTTTTGTCT TCAGGTAAA

SEQ ID NO:134: (Length of Sequence = 437 Nucleotides)

GACGGTGGCG ACCGCTGCAC CGGGATGTG TCCTGCCACC AGAGGAGGTG TCGTGGCGG GGAGCAGAGG GCCTTTGTTT  
CCCAGGTGAA GTGCGGCTT CTTCACCTTT AGAGGTGCGT GTGTGGGTGG GGGTGCTTC TGTGAGGTT TATGCCGTGA  
ACTGACAGCT GTCCCCAAG CCATGCTGGC AGTGTGTAGG TGTGTCGCG GCCACCGCAG AGGAATCCTC TGGGCTTCTG  
TGGTTCAGT GGGGCCCAGC GCAGAGCTCC ATGAGTTGCT GAGCAGCCAG CCTTCAGCA TCTCCTGGGT TTTGGCAGCA  
GGAGGCGTCC CCTGTGCAA TTCAGGGGCG CGTGGGGGCT GGGGGCACTC GTAGCAAGGT AAAGGAGCCC CTGCTCAGGC  
CCTTGTGTC TCCCTTTCT TGCAAGAGGG GTAGACG

SEQ ID NO:135: (Length of Sequence = 534 Nucleotides)

GGCATGTTC TGGTGGGTGT GTCACGCTCC CAGAAGACTG AATTATGTT AGGATCACTC GCAAGGCCTT GTGAAGGAGT  
CTTACCTAAA ACAAAGAAA TATCAGGAC TTTTGTGAC TATTTACAAC TCAGTTTAC ATTTAAATTC AGGCAGTGT  
AATATGCCAA GGTAGGGAAT GTGCTTTT CAGAGTTGCG CAGGAGCTCC TGGCTGGGAC ACCGAGAGGC AGGTGTGCGC

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TAAGGCCTCA CTCCCGGCTG TGAAGGTCTC TGATCACACA GAAGCAGCCC TGCCAGCCT GGGTCATTTC CTGTCCGCTT  
 TTCTCTGTGA CCACAAGCAG CCTGAACAA CCAGTATGTC TCTTCTTTCT CCAGATAGTG AAAAAGGGTG TCCAGATAAA  
 CCCACCTAAG TGAAATGGGC CATCCTCTAA ACTGGGGTAC CTCACGACAG AGGTTCTAGG TAGGCTTTCC ACTTAATCTA  
 ACTTGAGGCC TACAGGTACC CTGTAAAGTT AGTGGGGCTT GTCCTTGATT GTGG

SEQ ID NO:136: (Length of Sequence = 279 Nucleotides)

CAGTTTGGAC AAAGTAGCAT AGTGACTTIN TTCTACANT GACTTTOGGA GAAGTINGCA GTTCTGGCA AAGTGACGCT  
 GGGCTGTTTG AAAAAGGCAA GCTTAGCCTA GGCTGCCATC TTA AACATT TOGAGGCTGT AGCTTCTCA GGATCCTTTG  
 CCTGTGTTCT GGTGGCGGC AGTGCCCGT CTAACAGCTT TTA ACTCTGC ACTTAGTGCC TGAGCACCTA TGCTGTGAG  
 AGATGCTAGA TACAGAACCC TGTCCTGTAC CAGTGGGG

SEQ ID NO:137: (Length of Sequence = 518 Nucleotides)

CAAATATTTA ATGGAGATCT TCCTGTGTGG TCTGTTATAT GTCTATCCGT TTCTGGGTGG TTTAGGAGAA TCTGTACTAT  
 TTCAGCATGT CCTCTCCAG CAGCAAAATG AAGAGGAGAA CTAAGTGTG CATTTAAAG GTTTGGATTG CACTTTCCIT  
 TCTCTAACA TATGCGAGTG GCCTCAACTT TTCCATACCA GCATGCATAA TGAATGGGTG CCCAGTGGTC ACTATCTAAC  
 TGGTTGACTG AAAATCTTTC ACTGAGAAGA CGGCTTAGTA ATTCTGAATC TCCTTCACAG GCGCTTCGGT GGAGAGGAAA  
 ATCATCTACC CACTGTGCTT CCTGTCTTC TGTGACACTG CTCATGCTTC TCTGCCAGTT TTTCTGTGTT AGGGTATTTG  
 GATTTTGGAG TAGTCTGGAG CTCCTAGACC CAAGTATGGA TTTATFACCC ACTTATCTAC CGATTTGTA TACTGAGGAT  
 CCTATCCAAC AAAGGGTGTA AATCCAGGAT CCGCCTTC

SEQ ID NO:138: (Length of Sequence = 266 Nucleotides)

GATTGAGGC ATGANCCACT GCGCCAGTC GAGTGGTAAT ATGTMAAAG GAAACCTTTT TCTGAGCAGG TCTCAAAAGA  
 GAGGTAAAA TACTGAGTAG ACCATMCTGT AAACAGATGT MCTGTATYC GGGCTTTCAT ATTCCATTTA TAAAGCACAG  
 GCAGAGCTCA GAGTAGATTT AAYGTAACTC TGAAGGGCAC TAGGATTTTC AGAATGGTAA ATAAGCATTG GCTTCACCTT  
 AAATYCAAT CTGCATGGG CTGTGA

SEQ ID NO:139: (Length of Sequence = 341 Nucleotides)

ACCTCGCTCA CCGCTCTGAC CACCGACAG CAGAGCAAAG GATGCGGGAG TTGCTCTGTC TGCCCATCTA AGGGGACGTA  
 GGCAGAGAAG CAAAGGCTC TGCTCTCCCT CCATCCATCC CGGTGTGCTG GCCCCAACGG AACAGGAGTC CTCAACTAT  
 TGCTGCCAG AGACCCAATT TTAGGGACTG TAGTCTGCAT CTGGATGAGC TGGGCTGTAG ATTGAAGTCT CAGAAGCAGG  
 GAAGGTTGGA AGGGGTAGGG TCCCAGAGCC CATGGAGTTA TTGCTGAGAA GATATGCAGG GGACACATTT CCCAGGGGCA  
 GAGTAGAAGC CCTGGGCTT G

SEQ ID NO:140: (Length of Sequence = 234 Nucleotides)

GTGAAGGGAG TTGAGAATC AAATTGCTAC ATAGGCCAAA CAAAAAGAA GGCTTTTTCA AAAACATTA AATTCACATG  
 CAGTCTCAGA GACTATTTAG GCAAAGTTCA AGTTAGGAGC TTTTAGGATG TGGGANIAAA ACTTTAATKG GAGGGGAGGG  
 CTGCTCTG GAGAAGGAAG AAGCCAGACT TGTTAGACAG TACTCTAAC TCCTAGCCCA GCCTAGCGTG CCT

SEQ ID NO:141: (Length of Sequence = 354 Nucleotides)

CAACTCAGGT TAGCACTGC AGGAAAACCT TCTTCATTT CACTGAATTT TAAAGAGAGA ATCCTGTCTC TATTTCTCAG  
 AGAAACTTAG GTGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCTTCATGA GATACFTTA TTTTATCTC TTTCTCTACT  
 CATGTGCTTA ACTGGTGAAG TGATTCTGTA GAAATAGATC CTCTGATTG TGCATCTCAT TTCCTTATGG CAACTACAAC

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AGGAGGAATC CAGCTGGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGCGC CGTGCTGGGC  
TCACTCACTC TGGGCCTGCG CACTGGGGTT GTGG

SEQ ID NO:142: (Length of Sequence = 373 Nucleotides)

GTTTTTGCAA CACTTTTTTT TTAAGTTAIT GGGTGCAAAA TCCCAAACCA GGATATGIGT ATGTCIGTGT GTTTATGTTT  
TTNATTTGAC CCTCCCTCTT TTCAACCTAC CCCCTTTTAT ATCTAATGTA GAAAAAGCGA AATTGAATCT GGAAAGCAAA  
CTGTTGTATA TAGTTCGGGT AACAAATCATG AAGAGAGAGC CGGGCTGTCC AGTTGTTTTT GAGACAGAGT CTCACTCTGT  
TGCCAGGCT GGAGTGCAGT AGCATGATCT TGGCTCACTG CAACCTCCCC CTCCTGGGT TTAGGCGATT CTCCTGCCCT  
AGCCCTCCCA AAGTAGCTGG GATTACAGAC CGTACCACC ACAACTGGGC TAA

SEQ ID NO:143: (Length of Sequence = 262 Nucleotides)

CGCACCTCG GCCAGAGGCG GCTGCAGCAG CTGCIMCCTT TTCCCTGCCG CCGCCTCTCC AGTCCCTTTT TTAATTACCA  
CTCCMCTGC TGGGAACGGG CGAGAAAGAG GAGGAGCGA GAAACTCCCA CCGACCCACA GAGGGAGCAT GATTTCGGCA  
ACTTCACCTA TCATTCTGAA ATGGGACCCC AAAATTTTGG AAATCCGGAC GCTAACAGTG GAAAGGCTGT TGGAGCCACT  
TGTTACACAG GTGACTACAC TT

SEQ ID NO:144: (Length of Sequence = 384 Nucleotides)

GGAAAGCGG GACCCAAACA GTGTGCTGG GGAAATTTTT CCCTGTCCCC TTTGGAAGGC TGAGTGGGTG ATGCAGCACA  
GGAACAAGGC TTGGAAGTCA GAGGTCTCAT CTTCAGTGN ACAAGCATA AAGGACTTGG GGTGAGCGT GTGINTGGGC  
TCAAGTGACC ATGCAAGTCC TGTCACTCC TTCCTAAGAC CCCATCCTTC TCCCAAGTCC TCCACAAGAG CTACCTTCTT  
CAAAACAATA ACAGAAACAC ATCAAGCTTG GGGTCACTG AATTCAGIT CTGATTTCTC CGTCACCCC AGCAACAGTG  
CCAGTTTGA TTGTGACACT TTGACCCAGC ACTTGGTTTT GAATGTTCTT TTCGGCTTGT ACCG

SEQ ID NO:145: (Length of Sequence = 324 Nucleotides)

CTACATGGAA TCATAAGTGT TCCTAAAAA GGAAGACAGA TTGAAGACA GAGGAGGAAG GTGATGTGAT GATGGAAACA  
AGGGGAGAAA ACGCAATGTG ATGTGGCCAC GAACCAAGTA ATGAGGACAG CCTACAGAAG CTGGTCAAGG CAAGGAAACA  
GATTCTCCTC TAAAGTCCCT GGAGAGGGCC TGGCCATGCT GACACCTTGA TTTTKTCCA GCAGAAACTC ATTTTGGATT  
TCGGCCCTCC CAGAAAAGTA AGGGGGTAAT GTGCTGTTTT ATGTCAGGTT TKGGGTAAAT TGTTTATGTC AGCCATCGGG  
AAGG

SEQ ID NO:146: (Length of Sequence = 355 Nucleotides)

TTTGCTCCT TCCTTCTTA TCCAGCAAG GGTTGGTGA CAATGACCTG ATCGGGGTIT AACGCCGGCT CTGTCTGCTC  
ACCAGACCTG GGGTGTGAG CTCTGACCAG CCTGGGCAGC CCAACCCACA GGAAGTGGG TTTCATAGCT GGGTCTCAG  
GAAGGGGTGG AGGCTTTGGG AGTGGCAGCT CCGGCTCC CACCACCCA AGCCAGAGAA TGGGGCAAAC TTGTATGCAT  
GGCTTATCTC TAAATTACTA ATCTGCTTCG GACCAGACTC ATCTCTACAG TATAGAGTTA GAGTTATTGC TTCTATGACA  
GGTGTCCAG AAGCCCTGGG TGGCTTTAA GTCTG

SEQ ID NO:147: (Length of Sequence = 337 Nucleotides)

CAGTTTTCTG AGTTCCCGTG TGCTAGACTG GCCAGAAGAG AGGGTCTGGG GCCTGGTCAC TCGGCCACTC TCTCCTGTTT  
CTGGCCTCTT CTCCCTTCAC TCCGTCAG TCTGGTTTTG AGAGCAGGGG CTGTCTACA GCACCTCAGG GAAGGGAGGA  
GAGATACCTG CTGCTTCAT TGCTTTTCCC TTCTGGAGT CGATGCCTTT CTAAGGGTGG GAGCTGCTCC TTGCAGGGGC

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GGGTGAGTTT CCCAGGCCAT GCCGGGGTG GCCATCTATG CTAGGGCTGG AAGCTGAGGC TGGCCGCCAA CTGTGGGGCT  
GGGGTGGGGG TGGGTGG

SEQ ID NO:148: (Length of Sequence = 278 Nucleotides)

GGAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCCGCCC AACCCCATC GTCACCTCTGC  
TGCAACACGA CACAAAGGTT TAAAGATCTG GGCCCAAAGA CTCTGGGACC CTTCAAGCAA GTCAGGTGGA AGAAGGTTTC  
CCCACCCCCC ACCAGGCTTG TTTGTCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG ATGCTTGATA  
GGAAGATCTT TGATATCAAT GGCCTAAGCT CTGCTCAT

SEQ ID NO:149: (Length of Sequence = 368 Nucleotides)

TTTTTTTTTT GTTTCAACA AACTTTACTA AATAACCCCTG GAAAGGCAAT GAACGATCTG ACAATTTAAG CTCTAATGAT  
TTAAGCTCA GCTAGAAGAA AGTGAGGCAT GACATATACT GTCAACGGAG GGTGAAGGAG GCAGATTCTT GGAAATGCAA  
TGATCCACA CATTGTCTTC AAGGAGAAAC CTGCAGACAT ATTTTCAGGT CTGCTAAGT AACAACTGTT TATTGTGAAT  
CAATACATT GGGGAAAGTC TGCTATGTAG CTAAGGTAC TGTAACACA GACCAACAGA TGAAAGGAA AAAGGCACTG  
GACCAGCAAG GAAAAATACA TCCCCATCCT CAAAAGAAAT TTAAGGTG

SEQ ID NO:150: (Length of Sequence = 367 Nucleotides)

TTGTGAAATG GGCTGGGTA GATAAGGAAA AGAAGCTCCA AGAGGTAAAG TGATTGCGG ATTTGCCTAA ATTATACAGA  
AGAGTCAGCA CCAGTGCCCA GGCTTCTGA TTCTAGTGC AGTAAACACT AAGCACCATC ATTCCATTTC ACCACACTCC  
TGCTGTCTG TTGTCTCAG CTAAGAAAGC CTACCCCTGA GTTACCCCTCT TCCATCTTAG AGCCTTCTCT CTGCTGTCT  
GCCCCCTGC GATGGGGACT TCTTTGGCCC TTCTACCCA GCCAGCCTC TGCCCGTTTT CCTTCTCCTT TCCACTGCGG  
CTGAGCTCTT TTTCTCTCC GAGAAGCCTT TCCATCATCT TTCTGG

SEQ ID NO:151: (Length of Sequence = 366 Nucleotides)

CCCAGCGGC CGCTCCCTC CTCTCTCTC CATAGGTGGG GGTGTGGGC CTTCTTTTT TTTTGTCTT GGAGGGCAGT  
TAAACTCTC CATTTGCCTC TCTCTCACA CCCAAATGCC AAAGGACACT TTTCCCTTCT TTTGTGGGTA GTTGCAAAAA  
AAAAAATTC CTATGGGTTA CTGCCACTTT TAAATACITT GTAACTTAAA GSCAAAGTAG TATGTCACCTG TTTCTTTTCC  
CTGTAGTTTA CTTTGTAGGT TAAACATCTT TCCATGTCTT TATTGGTCAA ATACAGTTCC TYCTTTTGT AATGTTAAT  
CCTAATATGG ACCATTTTTC CTAATGGGAT TACCGATTTT TTAAAA

SEQ ID NO:152: (Length of Sequence = 269 Nucleotides)

GTATTTCTGG CAAGTGCTTT CAGGGCCCTC CAGGGTTTGG CTGGTCACCA TGGAGGGGG GTTCAGGTGC TGAATTTAGG  
GACCCAGCA TCTACAGGT TTCCCTTCC ATCTTTCCA GTGGCACTGT GTCTGAGCAG GTGTGCCAG GTGAGGTGT  
ATCCACTGTG TCTGAGCAGG TGAGCCAGG TGAGGTGTA TCCACTGTGT GTGAGCAGGT GTGGCTGTG CAGGTGGAAG  
TGGGATATN TGGGCACCTG GTGCCATT

SEQ ID NO:153: (Length of Sequence = 260 Nucleotides)

TTTCAGGATT TTATTAAAA TTATTGTAA TGGGGTCCGC GCAAAAGGAA GGGGTGGAGG GTGGGTACA TGCAGGGGAC  
ACAGGAACAN GATCCACATG GCCAGGNC AACTTCTTC TGTGTGGGG AAGAGGGATG AAAAGACAAG ACCAGGGCTA  
NGAGCTGGGG TGGAGAGGG GAGGGGNAAC ACTGGCTGCA TTCCCNAAAC CCCANGANG ACCTATAGGC CCTGGACCCA  
TGGGTACCC TGGGCCCTAG

SEQ ID NO:154: (Length of Sequence = 405 Nucleotides)

TGGAACITGT GAGTGGGGAC CCATGATGTA TGGGTCTCAC CTGACTTGAG GTGAATTTTG GAGTGAAGGG CCCTGAGGTC  
AGCTCCCAGG TCGGTCTGTC TGGGCCAGGC CTGGTTTTC AAGGGGCTGA AGGATCCCAG TCCACCTGTG TGCATGTCAG  
GGCTCGGCCG GGAAGAAGCC AGCAAAGTCC CCGGTGTCCC TTGCTGAGTA TTCTGTCACA GACAAGCCTC CATTAAAGCC  
ACAGCAGTGC TACCCACCAC ACACACCTTG CTGGCCCGGC CACCACTGCT GGCTTCAGCC CCTTINAGCAG CCCATGGNTT  
AGCAGACCTT CAGATGTAGG TCAGTGGCCT TANCTGTNTC TATCCATGCT GTTAAACTCC CTGCCTCCAA CTGGGGGTCA  
CCAGT

SEQ ID NO:155: (Length of Sequence = 40 Nucleotides)

CCATGATCTT ATTTATTACA TCTAGTTTTT CTTTATACCT CTAAAAAAA GTGCCTTTTA GATTTACAGC TTGTGCTTCT  
AAAGCAAAGG TTAACACATC ATGCCCAA GGAACAAG GTAAAAAGGA AGCTGCCATA TAAGCTCTTA AAANTGTAT  
GTACAAGGT TCTAAATCT CTTCACTACT GGTGGTTGG TAGATTGTAC GACACTGACA TGGTCTTGG GAGGGTCATT  
TATCTGATGG TTGGAGCAGC ACCATGGGAA AGCTGCCAG ATGGTCTACT GAAGTCTTG GCTGTGCACA GAATGGGCC  
AAGGGCCAGN AATTCATGAG TCCGGGAAC TTGGNGGTC CTACTCAAT CTCCTTAGTG CTAAAGNTC AGAGTCTCAA

SEQ ID NO:156: (Length of Sequence = 443 Nucleotides)

GTCTCTGGA TTGCTTCGTT GGTTCGAAC TTAAAGAATG GCAACTGTG ATTGGNTCCG ATTAAGACAA GCTTTGTAGT  
TTCTTCGTG TAAACACCA ATCCCGCTG GGCCATGAGG TAGCAGAAGT GGGCCGCATC CAAGAGGCC CTTGAAGCCA  
GAGTGTGCC CATGCTAGCC ATCGTCTGG ACTCGACGTC CATGTTGTG TTCAAGTTGG ACAAGACCAT GCGAGGTGC  
GGCTCCAA CTCCCATT CTGCTCTCA CAGCAGTGG ACGCGCAGG CATCCGTCC GACATGAGCT GGTAGACTGT  
CTTCAGAGGG TCGTTGATT GGGAGGCTTT TTAGCAAACC TKGGTCATGA CTCGGGCGTG TGTCGGGCTG TTCCATCTTA  
CTTCAAGTA GCAGAGCGTG ACCCCACAAG GCCATTCTTA ATT

SEQ ID NO:157: (Length of Sequence = 383 Nucleotides)

ATTGGAAGG GTTTTAAAG GAGTCGAAC CTGAGTAGAT TTCCAAATTT TACAGCCAGG ACTACAGAAG TGCATCATT  
TAGAATGTGT AGACCTGAGT AGCTTATACA CTACAGACCA CTTTGCTTAT TTGAAAGTAA TTCAGCAACA GGTCACCTTG  
GGATATAACC TGAACCTTTT TTTGAGTGG GGTGGGTAGA CTACAGTAGA CACAAGGGCT GGACATGCAG ATGCTTAGGG  
GATTAGCGIT TTTCATAATT TGTTCGTTT GTCAGTTCAT TCCTGTGTGT TCTTACCTCT ACAAGGTAC ATTACACATT  
TTARGTTTTT TAGTGACCTT TAACCATGTT ACTTGAAGCA TTTTGAATA TAAAGCTATT TTA

SEQ ID NO:158: (Length of Sequence = 241 Nucleotides)

TGGTSTGTGG CTCAGCTGCA GCGGCAGTA AGTGGGTSTC CAGGGGAGTG GACAAGCAAT TCTCTGTCA TTTGCAACTT  
TCTTCAGGAA CTCAGATAAA GAACACTTGG ATAACGATGA TCCCTGTAGA GGGATTTTAT CTGTACCATC ACACATGGAA  
GAGGAGTTTC TAGGTCAGGA AAGGCAGCTN CTAAGCTAAA GGTTCCTTGG TCCCTTNGTC CTGGCATGCC TTAAGGAGGG  
G

SEQ ID NO:159: (Length of Sequence = 224 Nucleotides)

CTGTCAGTAA TGGCTCACTA AAGGGCCAGC AGTTTAAATT ACACAGGTTG CACTAAAAGC TGCAGCTTTG GCCAGGCAAG  
GTGGATCAGC CCTATAATCC CAACACTTTG GGAGGCCGAG GCGGGCAAAT CACCTGAGGT CAGGAGTTCA AGACCAGCCT  
GGCCAATATG GTGAAACCTA AGCCTCTACT AAAATTACAA AAATTAGCCG GTCGTGGTGG CACA

SEQ ID NO:160: (Length of Sequence = 377 Nucleotides)

137

GGAGGCTGAG GCGGGCGGAT CACGAGGTTA GGAGATGGAG ACCATCCTGG CTAACACAGT GAAACCCCTGT CTGTACTAAA  
GATACAGAAA ACTGGCCCGG CGTGGTGGTG GGTGCCCTGTA GTCCCAGCTA CTTGGGAAC TGGGAGGCTG AGGCAGGAGA  
ATGACCTGAA CCGGGGAGGC GGAGCTTGCA GTGAGCAGAG ATTGCGCCAT TGCCTCCAG CCTGGGCGAC AGAGTAAGAC  
TGTCFCCAAA AAAAAAAAAA ATAATAATCA AAGCTCTTGG ATTTATAGTT TGGTCCCAG CCTGTGTTTG ATCTTTCCTT  
TATCCTGTTT TATTGCCATT TACCACGTCC TTTTGGAAAC ATCCCTTTCA ACTGCTG

SEQ ID NO:161: (Length of Sequence = 273 Nucleotides)

GCAGCGGCGC CGGGCGAGGA GGCGGCAGGG GCGAGGAGGG GGCGGCGGGT GGCGACCGC AGGAGGCCAA GCCCCAGGAG  
GCGCGTGTG CGCCAGAGAA GCGCGCCGCC AGCGACGAGA CCAAGGCCG CGAGGAGCCC AGCAAGGTGG AGGAGAAAAA  
GGCGAGGAG GCGGTGGCCA GCTCGCGCT GCTAGGCCCC CTTCGCGCG GGCGGCGCG CCGCGGAGC AAGGAGGCAG  
CCCCGCGGA GGAGCCCGG GNCGCCGAG ACT

SEQ ID NO:162: (Length of Sequence = 286 Nucleotides)

TTTGGTCAA ATAAATCAGA GTACTACAAT CATCAACAT CTGATTCATT TAACATGTA GCATCTATAC CTGCCCATT  
GTGTGAATAT TCAGTATATA TCTACACCT ATTCTCATGC CTTCATTTAT TGTGGTTATG GCTGTAGATA TGGAAAAAC  
AGTAGCTGAG ACATTTTAT TATGAATAT ATTATACCTT AATCAATCAG TCAGAAATG CTTAGGAAGA AGAATGCAT  
GATTGTAAAT GCATGATTTC AACATGCTAC CCGCCAACA AAGTTG

SEQ ID NO:163: (Length of Sequence = 342 Nucleotides)

TGCCAAGGA AGACAGAACA TGGAGAACG TCAAGGCAGG AACCCACAG ACTGTCCCTT CCAGCCACA CTCTGCCACC  
TCCTGGCCCT GTCCCAATTC TGAGCCAAGG CCTCCCGAG GCAGAAGTTG CCTGGTCTC TGTCCCAACA GTGACCTGAC  
TGGGGTGAG GGAGAAGGAG GAGAGAGCCC ATGTGTGGTG TGTGTGCCCC TGAGAACTC GTGGTACTG CCTTTGGGAG  
CCCGCAAGTG GCCAGAGGCA GGGGTAGCTG AGTTCCTGGG AGACCCCTTT TTTTCCCCA RGTTCCCAG AGGGCAACGC  
CATCAGTAGC AGTGTGGTGT TT

SEQ ID NO:164: (Length of Sequence = 392 Nucleotides)

ATTACCCGGG CCGCGCTCC CTAAACAGA TCTACGGACC TTAACCGACG CCATGCTGAG GCTCATTCOA TCCTGCRGA  
CGTATGCAGA GCGCTCACT GCTGCCATGG TGGAGTTCTA CACCATGTTA GGAGGAATC ACCCAGGATA CACAACCTCA  
CTATATCTAT TCACCCGCTG AAATGACTAG GTGGGTGAGA GGCATCTTTG AAGCGCTGAG ACCTCTGGAG ACCCTGCCCTG  
TTGAAGGCCT CCTTCGGATT TGGGCACATG AAGCTCTGCG TCTCTTCCA GATAGACTCG TAGGGATGA GGAGAGGCGT  
TGGGACTGAA TGAGAAGATC GACACGGTTG CTCTGAAGG CACTTCCCT AACCTCGGC AGAGAGGAGG GC

SEQ ID NO:165: (Length of Sequence = 406 Nucleotides)

GTTATAATTA TCTGTGTTA TTATTATTG TTTATCTCTT ACTGTGTATA ATGTAGAAAT TAACTTTAC CATAGGTATA  
TACATATTGG AAAAAGCATC TTATATACAG GGTGTGTTAC TATCTGTGGT TTCAGGCATC CACTGGGGT CTGGAACAT  
ATCCCTTGCA GATAAGAGGG AACTGCTGTA TCCATAGAAT AAAACACCC CATCTGAAG ATAGGAGGTT CTGTAAATTG  
GGATGGGGTC AGGGAATCTG AATTTTAAAA GTTTCCTATG TGATTTGATG CCCAGCCAAG GGCTGGGGAC CACTGTCTTG  
AAATATAATG CTGAGGAAGA TACTGTCTTT GGATTTTCTT GGTAAATCCG AGTGCAAATT CTCAGGCTGG AACCTTATGG  
GCCTTG

SEQ ID NO:166: (Length of Sequence = 453 Nucleotides)

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GAAAACCTTG CCATGGGTCA GTTTTATTGG AAGTTCATTT TCCTGAATGT TTGGAAGAAA GTCTAGTGAC TCAGGATAGC  
 ATTTCTAATT TCACAGAGTT ATTTTTCCTG TATGAAACAC AGATTGCCTT TGAGGTCTCC TGTTTCTACT ACTGCCCCTC  
 ACTTTTATGT GGGCCTCCTC TTTCCTTTGT TTCTGGAGAA CCTTTTCCTG TTCAATTCTG TTTTAATTTT CAGCAGTTTT  
 TTTTCTGTGT GAGTGAGGCT GTTTCTAGC AGGGAGGTCT GGTGGGTCAT TTCAAGTTC ATCAGGGCTT CATCAGGGCT  
 TGTCACCTTC AACCCCTACG CTATAGGNCC CTNTGCACCA TCTGCANTCT TCAAAATGTG CCCACTGGTT CGTTCCCATG  
 GAGGGCTTGT TGGTAATTTG GGCTTTTAGG GGGGGCCATG GAAGGAGCAA ATC

SEQ ID NO:167: (Length of Sequence = 285 Nucleotides)

TTTACTCTTA AAACGTGTAC AACAGAATCA TGGACTGACA CAGGTAATGG CTGAGCCATA AGCAAATCGA GAAGTACAGA  
 AATGTCCAC CCCAAACAGC TGCGGAGTAC ACATCACACA GGGCCTCTGG TCCCGGCCTT CTCAGGTGCT CTGGAGTGG  
 GGATCCTTTG AGGGAACCTT GACCACTCCT GTTGTCTACC TAGAGAGCAC GCCACTTGGG CCACCTACCC CCAACCTTTG  
 GCCAAAGGAG TGAAAGGACC TGAACCTGT CGTCAACCTC AGCAT

SEQ ID NO:168: (Length of Sequence = 327 Nucleotides)

CTAGAGGGCA CTCTGTATAC CCGTCAGCTC CTGGAGCCAT TCATTCTATG CTGGGCAGAC AGGCTGTGAG AGGACATGGG  
 GGACGGTGGG AAGGNTCCAA AGACGAAGCT GTNGTTTATC CTGTGTGGT TTACACAGGG AATGATGAAA CATTGAAGGG  
 GTTTAATAAG CTTTTCTTAA AACATTTTCC CCTTAAACAG GCTGGCACTA TGTCGAAGCT GCCCAAATTT GAGATTGATT  
 TACCAGCTGC GNCTAAGTCA ACTAAACCCA NGCCTTTCCG AAAGAGACAT CGCAANTGGC TTACCCAANG TANTGTCCCG  
 TTTTCAG

SEQ ID NO:169: (Length of Sequence = 346 Nucleotides)

GGTCTATGG AGAGCCCGCC GTCCCTCAGG GGTGAGCTGG GGAGGCTTCT GCGGTTCTGG AGTCCCGGCG ATGGCGCCAG  
 TTCCCCAGCA AACCCCTCC AGAGCTGCC COGGATGCAC AGACAAGGAG GGGGCTTGGG AGTGACTTGA GGCTGTGAGC  
 GGRTOGCCCT CGGTGTGGG AAGTGAGTCC TCTGTGGCCA AGAGGTGAGA GTCGTCCCTG AGGCTGAGTC GAACACAGAC  
 CCGTGGCCCT CATAAATTA AACATAAAG CACAAAATG GCGCAACCA GACAGCATTG GCTTTCAGAC AGGCAGGGAC  
 ACGGGGGCC CTTCGTGTG ACCTGT

SEQ ID NO:170: (Length of Sequence = 398 Nucleotides)

TTGACCTCAA CTACTGAGC AATGCCGTAG CTATGGAATA GAAGCATTTG TTGCACTCTT TTTGTGAGCC AGGCCCTGTA  
 GGAGGGATTG TGGATGGCAA AACCTCAGGT TCTGCCCAA TCCTCCCTT GGGGGCTGGA GGGTCTCTAG TTAATTGGCA  
 TTCCGGTGCT TAAGGCCACT TTGGGTAGA GGTGTGGCAA GGATGGAGTG TCCAGACCTA TGATCCTCTA AGAACTTTAC  
 CTTTTAAAA CAGCCACCA AATGGTGGTG GCGTGGGGAG CAGGTGGTGG TGAAGGGACT GGGGGTGTCT GGCCATKGCC  
 ACGTACCAGA GGAGACTCTG TGAGCCCTCT CCTGCTGA GGGACACTTA ACTTTTATAG CACTACATAG GGTCAACG

SEQ ID NO:171: (Length of Sequence = 321 Nucleotides)

AGACAGCATC TGGCTCTGTC ACCCAGGCTG GAGTGCAGTG GCGCAATCTC GGTTCACCTC AACCTCTGCC TTCCAGGTTT  
 AAGTGATTCT CTGCTCTCAG CCTCCCAAAT AGCTGGGATT ACAGGCATGT GCCACCATAC CCAGCTAATT TTTGTATTTT  
 CAGCAGAGAC GGGGTTTCAC CATGTTGGCC AGACTGGTCT CGAACTTCTG ACCTCAAATG ATCTGCCCAT CTAGGCCTCC  
 AAAAGTGCTG GGATTATAGG TGTAGCCAC TCGCCTGSC CCTTGGGTAA ACACITCAA TGCAMCCAAC CATTAAAGGT  
 A

SEQ ID NO:172: (Length of Sequence = 293 Nucleotides)

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GAAACTTATA GTCTTGCCCTC CCAACCTTCT GAACACTCCA GTAGAAAAAT CTTCCTGGCT ACCTTTATCA CCCCACGACC  
TACTAGCATT TCTTACTCTC AAAAAAATC TTTTCTGAAA AATCAAGACA GAGTGCAAAC AATCAGCATA ATTTTATTAT  
GACARAACIT TTAATTTTA TCCCCCTCTC TGAGAGTCT GCTAGGACTC CTTCAGATAA GTGAAAAGA AAKTTTTTAA  
AATTATCTCT CAAATCCGAA TTCCAATCTG TATAAAAAGG GCGATTCTCC CTC

SEQ ID NO:173: (Length of Sequence = 282 Nucleotides)

GCTTGGTCCC GTTCCTCAGG AAAAGGATGG ACCTTCTCTT CTTCCTCAGAT GGTCCTCTCC ATTCCTCTGA AACCTGCATG  
AGAGCTCCTA ACATGTTTCT CCAATGCAAT CAAGCCTAGA CTCCAAATGT CTTCCAGCT CACCTCCATC TATGCATCTC  
ATCTCTGGAT TTGGTGATCA GACTCTATAT TGACAGTAGG ATCTCAAACC CTGCATCCAT CCTTCTTCCA GCAAGCCCTG  
CTAGCCACAT GAGGAACAAG TTTCCGTGTC TTCATGACTT CC

SEQ ID NO:174: (Length of Sequence = 353 Nucleotides)

CAAGAGGTGG GAGAGGTAGG GGGCAACTAC AGCTCCCCAC CAGCCCCACC AGGGGGGAATG GACCCCTCCC TGCCTCCTGC  
CCAGTGGCT CCCCCTGTAT TATGGGGGGG ACTTTGTGCA AACTCTGCC CAGAGGGGTG GGGAGGGTGG AGGGTGAGTG  
TGAAATGGCA GCGGTGGGG CTGGCAGCTG TGCTACTGGG CACTGGGGGG CTGTAGGGC TCCAGGAGGA GGGCCGAGAA  
GGTGTGACC TTGTCTGCC CCCGACCTC ATGGGGTAAC AGCGGCAMIT TCACGATGTG GAAGTCTTC ATACAGGTCC  
TCCAATCTGG TCCAGATACT TGGCTGGGT TCT

SEQ ID NO:175: (Length of Sequence = 394 Nucleotides)

GCCCATGCCC TTGTGTACAT AATCTCTAAT ATTTATATAT ATTGATATAG AATTCTCTCT ATAATATATG TCATAGAATC  
TCTCTTGGC CTGGCGTGGG AATGTGACAT TAAGAAAACA TGCTAAGACT GGCCAGAAAA ATGGATATTT CCCAGACCTG  
GAGGATGGTG TGTGGGATGT ATAGGTGAGG TCGTGGAGAA GATAATAAAC TCATTCCCA AGATACCTC TTCAACACAA  
GGACAAGAAG GAAGGTGTGT GGTGGGGGAG GGGACAATGG AGGGGGAGGA GTGGAAGATT TGGATTTTCA TTTAATAAAG  
TCAATTGAAA AATGAAAGTG CACCCCCCT CCAAAAACA GGAGATTCTT TTAGCAAGAG CCGTTTCATT CACA

SEQ ID NO:177: (Length of Sequence = 381 Nucleotides)

ATTGGGACGG GCCCCCTCT GAGGCGACGG ATGATAAGC TTGATATCGA ATTCTTGAT NTTTTCTAGT GTTATGGTTT  
TCTCCACTC CAATAACTWT TCATACCTKT GGCTKAGTT TTCCATCTA TAAATCATG TGCTAAATAA TTAATATCA  
TCTCTATCAT TGTCAGACTA CACAAAGCTT CCAGCCTGGG CAACAGGAAC CCTGTCTCTA AAAAAATAC AAACATTAGC  
CAGGTGTGGT GGTATGCGCC TGTATTCCCA GCTACTTGGG AGGCTGAGGT GGTAGGACTA CTGGGCTTT AGAGGTCAAG  
GCTGCAAGTG AGCTGTGATT GCGCCACTGC ACTCCAGCCT GGGCAACAGG GCAAGACCCT G

SEQ ID NO:178: (Length of Sequence = 443 Nucleotides)

GATTTTATTC AAACACAGGC AAGAACAATG ACCTTCAGAG CTGGGTAAAA ATAATAAGTT AAAAGCATGG TTAGAATTTT  
AGACAATCAG ATAAAAAGTT TGAAGGAAGT GATTTCCCT TCCTCTCTA ATTGATTAAT TCAACACAGC ATAAAAATAA  
TTTGTATCTA TAAATATCC TTGTCCAC ACAATGAAC TGGAGGTGGC CCTAGGATTT CTTGACTAT GCACAATGCA  
CACAACTAC ATGTCCCTCC TCCCACCTT TTAAGGCAAA AATGGTCTG CATCTTCAGG CAGAGGTGG GCTCATGCCA  
GCACTCAGCT GTGGTCAAGG AACTGGGGG TGCGTTTCT CCACGAAAG ATGCTGCTT TGGTCCACT TTGGGCGGG  
GATCCATTT TATTTTCTAG CCTGTGCTC ACCACAGGA AAA

SEQ ID NO:179: (Length of Sequence = 325 Nucleotides)

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TGGGGGACCA GCATTGCTCC CAGCTGAGGG CGCGTCTTTC CTCACCAAGT ACCGGGTCAT CTTACGGGG ATGCCCCAGG  
 ACCCCCTGGT TGGGGAGCAG GTGGTGGTCC GCTCCTTCCC GGTGGCTGGG CTGACCAAGG AGAAGCGCAT CAMCKTCCAG  
 ACCCCTGTGG ACCAGCTCTT GCAGGACGGG CTCAGCTGC GCTCCTGCAC ATTCCAGCTG CTGAAAATGG CCTTTGACGA  
 GGAGGTGGGG TCTTACAGCG CCGAGCTCTT TCCGTAAGCA GCTGCATAAG CTGCGGTAC CCGCCGGACA ATCATGGCCA  
 ACTTT

SEQ ID NO:180: (Length of Sequence = 213 Nucleotides)

GAGCATGCCC CCGAGTCCC CAAGATCCTG GTGGGGAACC GCCTGCACCT GGCGTTCAAG CGGCAGGTGC CCACGGAGCA  
 GGCCAGGCC TACGCCGAGC GCCTGNGGT GACCTTTTTT TAGGTCAGCC CTCCTTGCAA TTTCACATC ACAGAGTCGT  
 TCACGGAGCT GGCCAGGTC GTCGTCTGC GGCATGGGAT GGACCGGCTC TTG

SEQ ID NO:181: (Length of Sequence = 219 Nucleotides)

AGCTTTATCA CATTATACAC AAACATAGAA AACAGTGTTC CAGAAGAGAA GCAAAGGCCA TTGGCTTCAA ATATTTATGC  
 AACAATGAAA ATGTTCTCAG CCTTAAATG AGCACTGTG ACTGTGTTCA CAGTGAGATA ACTAGTCAAT GGAAGAGTTC  
 AACACTAGAG CATGTATCTC AGTCTGTCT CATATTGCTA TAAAGGGCTS CCTCAGACT

SEQ ID NO:182: (Length of Sequence = 451 Nucleotides)

GTCTTACTCT GTTACCCAGG CTGGAATGCA GTGGTGTGAT CATAGCTCAT TGCAACCTCT GCCCTCTAGG CTCAGTGTAT  
 CCTCCACCT CAGCCTCCCG AGTAGCTGG ACTACAGTA CATGCCACCA TGCCAGCTA ATTTTGTAT TTTTGGTAGA  
 GACGGGGTTT TGCCATGTTG ACTAGGCTGG TCTTGAATC GTGAGCTCAA GTGATCTGCC TGCTCGGCC TCCCAAAGTG  
 CTGGGATTAC AAGCGTGAGT CATGGTGCTT GGCTAGTTT GCTCTTATTT TTTTCCATC TTTGAGTTT CTAGGCCACT  
 GGAACAGGC TGCAAGCTC AGAGTCCACA GCTGTGAGGC TCCATGTGC ACCATCAAAA AATAAGGTGA CGAGAGTCTT  
 GGGTTTCCA GTGTACGGC AAGAGGGTT ACTGCTCAG GGTACACACA G

SEQ ID NO:183: (Length of Sequence = 444 Nucleotides)

CCAAGTTGAC CCGCGAACC ACCGAC-GGA AGAGTGAGT CCGAAAACCT CTGAAGGATG ACCGGAATGG AGACTTCTCA  
 GAGAATAGAG ACTGTGACAA GCTGGAAGAT TTGGAGGACA ACAGCACACC TGAACCAAG GAAAATGGG AGGAAGGCTG  
 TCATCAAAAT GGCTTGCCC TCCCTGTAGT GGAAGAAGG GAGGTCTCT CACACTCTCT AGAAGCAGAG CACAGGTAT  
 TGAAAGCTAT GGGTTGGCAG GAATATCCTG AAAATGATGA GAATTGCCTT CCCCTCACAG AGGATGAGCT CAAAGAGTTC  
 CACATGAAGA CAGAGCAGCT GAGAAGAAAT GGCTTGGGA AGAATGGCTT CTGCAGAGC CGCAGTTCCA GTCTGTCTC  
 CCCTTGGAGA GCACCTTGCA GCAGAGTTG AGGCTCAGCA CCGA

SEQ ID NO:184: (Length of Sequence = 399 Nucleotides)

GGCAGAAAGA GGAAGGAGAC AGTGCCAGGA GGAAGAAGGA AGGAGTCCCT TAGCTCTCTT CATTGTCCCC TTTACTTCCT  
 GCTATCTTCT TCTCTCTTC TTCTCTCTCT TGCCINIATG CCTGTATTTT TGGCAATATG ACAGGCTGC CTACCCAAGA  
 TCAGAACTCC AAAACCACTC CCACCCCTGA AGGTGGGAG GGCTTAGCA GCCCTGGTG GCTGCCTGTG CTCAGGTCTT  
 CAGTCCATG GGAAATAAAA ATGGCACCTT GAATCTCTAG GATTTGTCA CTTTGGAGTC ACAGCAAAGT TCTCTCTCTC  
 TTGTCCCCC GTTGTCTCTT CTTGGGTTA TAGGACATGG TAAATATTTA TTAATTTCAG GGAACCAAGT TTTTATTAG

SEQ ID NO:185: (Length of Sequence = 263 Nucleotides)

CAGAGACACT GGCCAGCTA TTTTCAGCAG GGACAGAGTC GAGGCTCACT GGGGATGGCT TCAGAGGACA CTGAGGCCCC  
 TCTCAGGGAG GGCAAGGCAC AGATACCCCA AATTCCACCC CAGTCCCAA AGGTCTCCCA GCGGGGCTGT CCAGTCCATG

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TCAGCAGAAG GCTCTTGGGC GGTGAGGGA GGGTCTTGA GAACTAAGCG AAGGAGGCAA ACGCCAGGGC  
CCCTGCGAGCACC ATGTGCACCA CTT

SEQ ID NO:186: (Length of Sequence = 343 Nucleotides)

GTTCCAATAG CTGGTTTAT TCTCAGCACA AAAGGGCCCT GTGTAAAAC CAGAAGGATT TTGTAAAATA TCAAAATGAA  
TATTTGGCCT GGAGGTTGA AAGTGAAGCA AGGCTGGACA TAGAAAAA CTGATCAGTA GTTATTCAGG ATATTATTTA  
GGATAAATGA AATAGGAAT TAGGGGCATC TCTTACTTTT CTACAGGTTT TTATCTGGGT CAATGAAGAA ATTGIGTTTA  
TCTTGCTGCC CTGTCATCAG GTTTTGTGCA CTAATGGAAA AAAGCCGGCC GAAAAACAAA ACCCAATCCT TTCAGTCCTA  
GCTTTTACAT CTGCCCCTG CAA

SEQ ID NO:187: (Length of Sequence = 229 Nucleotides)

GGTGCGGCTC CACCCCTTCC ACGTCATCCG CATCAACAAG ATGTTGTCTT GTGCTGGGGC TGACAGGCTN CAAACAGGCA  
TGCGAGGTGC CTTTGGAAAG CCCCAGGGCA CTGTGGCCAG GGTTACATT GGCCAAGTTA TCATGTCCAT CCGCACCAAG  
CTGCAGACA AGGAGCATGT GATTGAGGCC CTGCGCAGG CCAAGTTCAA GTTTCCTGCG CGCCAGAAG

SEQ ID NO:188: (Length of Sequence = 284 Nucleotides)

CCAGCAACTC AATTTCACCA CCTCGGACTC CTGCGACCGC ATCAAAGACG AATTTCAGCT ACTGCAAGCT CAGTACCACA  
GCCTCAAGCT CGAWTGTNAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CTKTCACTATK TGATGTACTA CGAGAKGTCC  
TAGCGCTTGA CCATCGAGAT GCACAAACAG GCTGAGACCG TCAAAAGGCT GACGGGATTT GTGCCCAGGT CCTGCCCTAC  
CTTTCCCAAG GAGCACCAGC AGCAGGTTTT TGGGGGCCAT TGAG

SEQ ID NO:189: (Length of Sequence = 215 Nucleotides)

GGAAGGATGA GAAACAGATT TCTGCTCACT TCATGGGCTG RCCTRGRATT GACGATGGTR CAAACCCAAG ATTATCCTCA  
TGTAATTTAT GAAGATTATG GAACTGCAGC GCATGACATC GGGGACACCA CGAACAGAAG TAATGCAATC CCTTCCACAG  
ACGTCACCTGA TACAACCGGT CGGGCACATC TCKGGGCTA TGCTGCCGGT GGTGC

SEQ ID NO:190: (Length of Sequence = 153 Nucleotides)

TTTCATATGG AAAGAGCTAG TACAATCACA TATTGAAAAG GAGAAACAAT AGGTACTGAA CCGGAGGGAA AGGGCGAGGG  
TGAGTGTGCC AGCACCGGCC TGGTGAATCC ACGATTCCGT TTCCCATCCA AGGGTAAGTT TCCCAAATA CCG

SEQ ID NO:191: (Length of Sequence = 316 Nucleotides)

GTATTTATAC ATTTATTTAT ATATGTATAT TTACTTCAGA NGAAACGAAC ATTTGGGGGA CAGGAAGCAA GCAGGCCCGG  
GGCTGCTTCC CTCACTGCCC ACCTCAGAGT CAGAGTTGGC ACATGACAAA TACCAAGCTC AGGGTGAAGA ACTGGGAGTT  
AACTGGGAAG TAGGGKGGC TCTATGCACA CGCAGGCTTC TAAGGGTGCA CGGTATGGGC AGKKGTTTG CACTGGGAGG  
CCCTATGTAC AGCTTGAAAG CTAGGGGTGA GATTAGCCCA GTGACTACAG GAACATACGT CAAAGTTGAG AGAAGA

SEQ ID NO:192: (Length of Sequence = 360 Nucleotides)

GTTGTTTITG GTTATATGCA GCTTTTGAAT AGCATGTATT GTGCTTTTTT CTCCCTATG AATAATTTTA TATTTCATGC  
TACTTCTTGA AAGTTTACTC TTTGATGCTC TAAGAGAACA GCCAGATGGT TTATATGAAT AANCTTTATC TGCAGGATGG  
TGGATTGGTA AATNAGGAGA ATGTTGTTTG AGATATCAAG ATTATATGCT GGGAACTAAA ATATATAATG CCAAATGTGT  
TTTTGTCAAT TACTAGAGAA TTCTGTGCAA ACATATCATC TCTTCACATG CTGCACACTT TGCTTTTGTG TAAACAGCAG  
GTAGTAGACA GACCAATACC AGTTTCGCGT TAAGG

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SEQ ID NO:193: (Length of Sequence = 397 Nucleotides)

GAAAAGACCA AGGAGATGGT GAAGACAGCA GAAGCCAGA AGCAGCAACT GAAGGAGGAG CAGGGGAGGT CAGCAAGGAA  
CGGGAGAGTG GGGATGGAGA GGCTGAGGGA GACCAGAGNA CTGGAGGGTA CTATTTAGAA GAGGACACCC TCTCTGAAGG  
TTCAGGTGTA GCGTCCCTGG AGGTTGACTG TGCCAAAGAG GGCAATCCTC ACTCTTCTGA GATGGAAGAG GTAGCCCCAC  
AGCCACCTCA GCCAGAGGAG ATGGAGCCTG AGGGGCAGCC CAGTCCAGAC GGCTGTCTAT GCCCCTKTTT TCTTGGCCTG  
GGTTGGCGTG GGGCATGCGT CTAGCTTCA CTCTGGTCA GTTCCAACAG GGTCCGTTCT GTGCTTTTG TGCCCC

SEQ ID NO:194: (Length of Sequence = 225 Nucleotides)

GATTATTGGC TTTCCTTTCA TAACATGAT TTTAAGTAT TTAATCTCTT AATGGCCCTC GTGTCTATTT TATACATCAT  
ATCTCTTAAT TCTCTAGATG GAACACTGAA GGACAGGAAT TAAGTAAGTG ACTGGCCATG CAAGGGTTGG AAATTTTACT  
GTATCCCTTC CTCRGTAGAA GTTATGTTAA ACATTCAGC AACCACATAT CTAACAGAGG AGTTT

SEQ ID NO:195: (Length of Sequence = 294 Nucleotides)

ATTACTAGAT ATTGTATGT TAAATTATGT GGGTTTCAA ATTGTGGAG AATAAGTAAT AGTGACATTA GTTTAAGGAC  
AGTGTTCAT CAGGGCATT TTTAATGAA TCTTATATTT AAATGTCTGT TTCAGGAATT CATGTGAATC TTTCTTTT  
TAGAGGACCC ACAGGCATGA NITATTTACT CCTCCGGTGA TAGGTTCTCA CCTGTATGAA AGCGGAAGCA AATTCCAGGT  
TAGAACATTA TNCIAGTTAT GTAGGGGGT ATAAGTGTG TAAGTTTAAAT ATTT

SEQ ID NO:196: (Length of Sequence = 233 Nucleotides)

TTATTTTCT CTAAATTTA AAATAGAAGA CTTAATGGA AAACATTAG TACCATCATG TCAMCCTGAA TGCCAGCAAT  
ACCTGACTT TTACACACGC AGGAAGCCTA GTAAAGCCC CGTCAGTAGT ACACATTTCT CTATGGTCTT TCAACAGTTT  
TTCATATACA AAATTTTCTG CTATTTTTC TTTTGCAAAC AGCAATAACT TTGGGGTTT CCATATGACC ACC

SEQ ID NO:197: (Length of Sequence = 230 Nucleotides)

AAGATATCTA CTGGAGTAG CTGTGCAGCC CGCCCTCTG CTCCCCCAG CCTCAGGCC AGTGCCAGGA CAGCTGGCTG  
CTGACAGGAT GTGGCACTGC TTGAGGAGGG GCACCTGCCA CCGCCAGAGG ACAAGGAAGT GGGGGCCGCT GGCCAGGGTA  
GGGAAGGKTG GGGCAATGGG GAGAGGCAAA TGCAGTTTAT TGTAAATATAT GGAATTAGAT TCATCTATGG

SEQ ID NO:198: (Length of Sequence = 118 Nucleotides)

TTCTCCTGGG GAAAGGGCTG TTGCTGAAGT GGCCGTTTT TTTAAGCATC GACATTTGCA TCCAAAGGTT CAAGCAGCCG  
CCTCAGGTT CARAGGCTC CACCTGATG CTGCATT

SEQ ID NO:199: (Length of Sequence = 268 Nucleotides)

TAAATGATGG AGTTAAATGA TGTGTGAGT GCCTATTTAA AAACTACTC TTCCCTTCT CTATGAGTTC TACTTTGGTA  
AATATTAATA TTTAACCAGT TAGTAAACT AACACCACTA TTCAATTCT CTTTTGTCAT TAGTAAGTAA ATTTTGCTTT  
ACTTACTTTA TAAAAAATA CTTTACATTT TATAAGCAG GTTTTAGAAA AACGGTTTAC AAGAAAGTTT GCCTCCATTT  
CACTGCCAAT TTAAGCACAG GGGAAAT

SEQ ID NO:200: (Length of Sequence = 422 Nucleotides)

CCAGTGAGTT TGTGAAAAGC AACAGGGGTA NGACAGGTTT AAGGAAGGAC ACAGACAGTG CCTGTTTTGA GGTTCCAAAT  
TTCTTCTTTT TAATGGGTGG TGGGAGCTGA GCAATGATGT CATTTGGAAG GGGCAATGAC TTGTCAATNA TGCAGAACAT  
GTAGGCATCA TGGAGAAGGA TGTGATCGG TCTCTGGGA TGAAACTGA TGTGTGTGAT AGGAGTATCC CTTTGGAGCC

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AAAGGTGGTG AAAGCCCTGC TTCTGGACAG TCCGGCTCCA ATCTGTATAC TGTTTGTCTG GGATGCTGTA CTCAAATACC  
TGCTGGTCCG AATGAGCGAT GACAAGGTTG TTTGGTATTG GGGGCAATAG CCATAGCAGT CACTTGGGAA ATTGTAAGCA  
GGCACCGTGC AGTGAAGTTT TA

SEQ ID NO:201: (Length of Sequence = 273 Nucleotides)

ACTCCACGCT GATGAACCCG ACGTCCATTT CTCCAAGAAA TTCTGGAACG TCTTCATGAG TGGCCGCTCC CGCTCCTCCA  
GTGCTGAGTC CTTCGGGCTG TTCTCCTGCA TCATCAACCG GGAGGAGCAG GAGCAGACCC ACCGGGCCAT ATTCAAGTTT  
GTGCCTCGAC ACCAAGACGA ACTTTGAGCT GGAAGTGGAT GACCCCTCTG TAGTGGAGTC CAGGCCCCCA GACTACTTGT  
TACGAGGGCT ACAACATGTG CACTGGGTGC CCG

SEQ ID NO:202: (Length of Sequence = 436 Nucleotides)

GGACTCCAAC CCCCCAGGAG GCCGAATGCT GAGCTTGSCA ATGGTGGCCT GGATGGAGCT GATGGGCACA TCCCCACCGA  
GGACCAGGTC CTGGGAGTCC TGAGGAAGGT GGTTCCTCTG GCTGATGCTT GCACTGGCCA AGGGTTTGCA TGGAGGAGGC  
ACACCATGTC GCTGCAGGAC CTGCTCCACG TGCTCACCAC CTGCCCTCATA GCAGAACCCT AGGTGCAGCT TCTCCTGCAG  
CATGTGCTTT CTCGTCTGCC GCATGCGCCG CACCAGCTGA GGCAGCTCAG GGATTCCKTT CCCAGCCTCC ACCTCCTGCA  
CAGCTGCATA GAGCAGTGCA AAGGCTCCCG TGGGCCCCAC ACCAGAGCTG CAGTGCACAA TGATGGGCGT TTGAGGGGC  
CGTGATGCAA GGTAAATTGC GTGCACCTCC TGGGTT

SEQ ID NO:203: (Length of Sequence = 336 Nucleotides)

CTGCATGINT TGGGGACACT TACGCCAAGG CGCGCGTTC TCATTAGGAG CTGGGACCAG AAGTGAATAA GCCAGGTTCC  
TGCTCTAGGG AGCTCCATAG CAGGACTCAG AACCACACAC GGCCCTCTAG GCATTTKTGA AGCTCTGTGC TTCAATTTTT  
TTGCTTTGCC TCTAGTTTTC CTTTTCAGT ACCAATGCAG CCAGCCCATG TKTCCCTCT ATGTGAATG TTAACGATAT  
TCCCACTGTT TCTGGTGTC TTCTGTAAAT CAGAGCTGCC GTGACCATTC CAGTTCAGGC ATCCTGGTGG CCTGGCTTTC  
TCTGGGGCAT AGAGCT

SEQ ID NO:204: (Length of Sequence = 393 Nucleotides)

GGAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCCCCCA ACCCCCATCG TCACCTCTGCT  
GCAACACGAC ACAAGGTTT AAAGATCTGG GCCCAAAGAC TCTGGGTCCC TTCAAGCAAG CTCAGGTGGA AGGAGGTTTC  
CCACCCCCC ACCAGGCTCG TTGCCCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG AAGCTGATAG  
GAAGAACTNC GATATCAATG GCCTAAGCCT GCTGINTGCC CAAGGGAGCC AAGGGCAAGA GCCAAAGGGC CAATTTAAAG  
GACGTGGACC TGGGGGGCCA GAGGAGGCAC CACAGCCGAG GGGAGCCACG CCCTGGGCGG GCAGGGCACA TGG

SEQ ID NO:205: (Length of Sequence = 390 Nucleotides)

GAGGAAGAGG ATGACCTGAG TGAGCTGCCA CCGCTGGAGG ACATGGGACA ACCCCCGGCG GAGGAGGCTG AGCAGCCTGG  
GGCCCTGGCC CGAGAGTTCC TTGCTGCCAT GGAGCCCGAG CCGGCCCCAG CCCCAGCCCC AGAAGAGTGG CTGGACATTC  
TGGGGAACGG GCTGTTGAGG AAGAAGAGCC TGGTCCAGG GCGCCAGGT TCGAGCCGCC CGGTCAAGGG CCAGGTGGTC  
ACCGTACATC TNCAGACGTC GCTGGAGAAT GGCACACGGG TGCAGGAGGA GCCGGAGCTG GTGTTCACTC TGGGTGACTG  
TNACGTATC CAGGCCCTGG TTCTCAGTGT CCCACTCATG GACGTNGGGG AGACGGCCAT GGTCACTTCT

SEQ ID NO:206: (Length of Sequence = 172 Nucleotides)

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CTTTACTGTG GGTGTGGGTG TCACTGTCAC TGCCACAGCC ACTNGGAGGG ACACACAGCT TTAACCCCTT TTTGCTTAGG  
NGAAGGGTGG GGGCATTTCAG GGTATATAAA CTAATATAT ACACAGAAGG TCCTAGGKAG AAAGCCACCC TGAGCACACA  
TGCTTAGGCA CA

SEQ ID NO:207: (Length of Sequence = 215 Nucleotides)

AAGGCAATTGA GAAGATTAT TGAATATTGG TTAAGTAG ATGACAATG ACATTAAAGA ATAAAGTGTA ATTTATTGG  
TGCTACTTTG TGAATGCTTC CAAGTACAAA TCATCTCACA ATACCATATA CAACATACIT TCAATCACAA CTCAAATATA  
AAATAACCTA CAAAATCACA TTGCTATAAT CAATATACAA TAATTGTATT TTTAA

SEQ ID NO:208: (Length of Sequence = 444 Nucleotides)

GGAGTTCTCT TGTCACCGA GAGCAGTGT GAGTGTATG GAATGCTAAA TCCTACCCCA AAGGGCAAGC AGGCTCCAGG  
TGGCCATGAG CTGAGTTGTG ACTTCTGGGA ACTAATTGGG TTGGCCCTG CTGGAGGAGC TGACAACCTG ATCAATGAGG  
AGTCTGACGT TGATGTCCAG CTCACAACA GACACATGAT GATCCGAGGA GAAACATGT CCAAAATCCT AAAAGCACGA  
TCCATGGTCA CCAGTGCTT TAGAGATCAC TTCCTTGATA GGGGGTACTA TGAAGTTACT CCTCCAACAT TAGTGCAAAAC  
ACAAGTAGAA GGTGGGTGCC ACATCTTCA AGCTTTGACT ATTTTGGGGG AAGAGGCATT TTGACTCAAT CCTCTCAGTT  
GTACTTGAGA CCTCTCTCC AGCCTGGGAG ATGTTTTTGG TATT

SEQ ID NO:209: (Length of Sequence = 338 Nucleotides)

GCAGTCACT TGAGGTCAAG AGTTGAGAT CAGCCTATAT ATGCAAGTAC ACACACAGGC ACTGCGACGC ATGCATGCTC  
ATGCAACACA CATGTCACT CTACATGTAC AGCTCACATA TGCATCCATA CACATGTGCA TGCTACCCA TACACCGCC  
ACACACAAGT ACTCATACGC ATACATGGCC ACACACAAAG TACACACAG TACACCATAT GCATATGTAT GCACTCATAC  
ACTCATACAT ATGTGCCCC TCAGAGAAGT ACACAAGTGC ATGCGCATCA CACATGCATA CGTGCTCATG CATACACAGC  
GGACATTICA TACACAG

SEQ ID NO:210: (Length of Sequence = 371 Nucleotides)

GAGGAAGTAG AGCCTNAGGA GGCTGAAGAA GGCATCTCTG AGCAACCTG CCCAGCTTGA CACAGAGGTG GTGGAAGACT  
CCTTGAGGCA AGCGTAAAG TCAGCATGCT GCAAGGGGAC TGTAGATTGA ATGATGCGTT TTCAAGGTA CACACCAAA  
CAATATGTCA ACTTCCCTTT GGCTGCACT TTGTACCAA TCCTTAATTT TTCTGAATG AGCAAGCTTC TCTTAAAGA  
TGCTCTCTAG TCATTTTGGG TCTCATGGCA GTAAAGCTCA TGTATACTA AGGGGGAGTC TTCCAGGTGT GACAATCAGG  
TTATTGAAA AACAAAAGT GGTTTTGGGA TCTGTTTGGG AGACTGGGA T

SEQ ID NO:211: (Length of Sequence = 295 Nucleotides)

CCTCCCAACG TGTGACATT ACAGGCGTGA GCACACGCAC CCAGCCCATC TAGCATAATG TTTTGCATAG TTGTCAGCAG  
ATAAATATTG AATGACAAA CTCAGATGGA GGAAGAGAA CAAATAACC TAGTTCTCAG AAAGATTTAA TGAGCAAATG  
GGAAAATGTC AAAAAGATTT ACAGACAGGG GCATCTTAGA GTCATGGAA TCACACAGGC CTTCCTCAG CTGAGGGGC  
TGCTTGAGG TGGGGGTGGG GGTACACCTC CTCAGTGGG AGAGACTTGC CAAAT

SEQ ID NO:212: (Length of Sequence = 370 Nucleotides)

TGGCCGATAT GAGGGGGTG GGAATGGCC CCGCGCTGC CCGCCGCTT CCTATGTCA TTCTGAGGA GGGGGGATC  
CGCGCATACT TCACGCTCGG TGCTGAGTGT CCGGCTGGG ATTCTACCAT CGAGTCGGG TATGGGGAGG CGCCCCCGC  
ACGGAGAGCC TGAAGCACT CCGCTCTCT GAGGCTCGG GGGGAGCCT GGAAATCGAT TTTGAGTTG TACAGTCGAG

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CAGTTTGGT GGAAGAGGGG GGCCCTAGAA ACCCTGTAGC GCAATGGGGT TGGGCGCCCC AAAGGTTAAG TTTGAACCCG  
AAGAGCAAAG GAAGAGGCGA TCATCATAAG TGGAGGATTA GGATTAGGAT

SEQ ID NO:213: (Length of Sequence = 302 Nucleotides)

ATCTGTGGAA TAATCTGCGG GCTAACACGG ATAACCTAGT ATAAGAACCA CCCAGTTGAT GTCTATGTG GCTTTTAAAT  
AGGAGGAGGA ATTGCACTGT ACTTGGGCTT GTATGCTGTG GGGAAITTC TGCCANTGA TGAGAGTATG TTTGAGCACA  
GAGACGCCCT CAGGTCTCTT GACAGACCTC AATCAAGATC CCAACCGACT TTTTATCTGC TAAAAATGGG TAGCAGCAGT  
GTATGGGAAT TTTCTCATAC AGAAGGGCAT CCTCAAACC GGAAACCACA GAGATGCTAG GT

SEQ ID NO:214: (Length of Sequence = 354 Nucleotides)

ATGGATGAGT GGGCACCCCG CACAGGGCTG CAGGGTGGAA AACGCTCGAC GGCCAGGTGG TGACTTGGGG GCAGAGAGCG  
CAGTGTGTA GGGGAGGAGA GGTGGTGTCC CTGCTGCTG GGAGCCAGCC TGCTGTGCT GTGGGAGAG CAAGGCATTT  
TCTGCTGCCG GTGCTTCAG GGCTAAGCA GCGCTGCAC ACTCACCAGC GCAAGGCTCC TCTGCAGGA ACGAGGGCTG  
CTACCCATTT CACAGATGAG GGCAAGCAAG GACTTGCCCA GGGTGGCCA NAGCAAGTGC GTAACAGGCC CTGAGAAGAG  
NGCCAGTGA CTCATCCTGA GTTAATTATG GGCT

SEQ ID NO:215: (Length of Sequence = 260 Nucleotides)

TGGTTCAAAG TCTAGGCCCT CTNAGAGCT GGCTGATTCA GCTTGCCAAC AGTGACATCA GGGTGAGGCT TCCTCTGTCC  
ACAGCATTAG CTGCGAATAT CCTCATGGTC ACAAGATGGC TGCCAGTGGC CGTCAGGTG TGTGCTTCT TGTTCACATC  
CAGTGAAGA GTGACAGCCT GCTCCCTTA GCTCTCTGAC ACCANITGA AGGTGCCANG AACTTACTAG CAGGNCITTC  
CTCATGACCC ATTCAACAGG

SEQ ID NO:216: (Length of Sequence = 232 Nucleotides)

CTGGACAAG ATCTGGGATA ATTCTCTGGA TTACCTGGCA GAGACTTTTK TTCTCTTCCC TTACTGTCTC CCAAATAAAC  
AGTCTCTCAC TCTGTGTGA GCCACCTGAA GCTGTGATAT TTCCAACGAC TGTAGGAGGA AAAAATTAAG GGGAGAGAGG  
AAAACAAAAC CAACCAACCC CTAANATCAT TTTTATTATG TACATAACGA CCTCAITCTC CTGTATATGC GG

SEQ ID NO:218: (Length of Sequence = 219 Nucleotides)

CTGCAACCAT CCATACCTTT TNCOCGTGGC TGCTATGGAG TCCCCAAAC TCCCCAGTGG GGCTTATGAG GGTGGGGCAC  
TTATTANGIN GTCTGGGAAG CTCATGCTGC TCCAGAAGAT GCTGCGAAGC TGAAAGGAGC AAGGACACCG AGTGCTCAAT  
NTCTCTCAG ATGACCAANA TGTTAGCCTT GCTGAGGGC TTTCTTAGNC TATGAGGCT

SEQ ID NO:219: (Length of Sequence = 390 Nucleotides)

GATAGGTAGC AGAGACCAAG GCGCAGGGTG CTTGAGATGA GCAAGAGAAC CCAGTCGAAC CAGATACCCC AGGTGGGCGC  
GAGGGACCCC AGACCTTCAG AGGGCTGCCC TGGTGTCTC CACAGTGCAG TCCTCTGTGA TCCCAGAGT GGGATCGGGG  
CTTTCAGCCC ACCCTGATGC CTGCCCTCCA GGATGGCTGG TTAGTCTGG GTCCATGTCC CAGACCCCTC TATTCTGCTC  
CAGGACAGCA GGACTTCAGG TCTTTCCTGG GGGTGGATAT AGGAGAAAAT TTCTGCCCTG CACACACCTG GGCTCCAACC  
ACTTGCCAAG TGATTCATC TTAGGCCAG GGGGAACACA ATGACTATCA TTACTGATGC AGACCTGGCT

SEQ ID NO:220: (Length of Sequence = 382 Nucleotides)

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TTTTTGTTT GTTTAATAT TTTTGATATT CTCITTCAT TGAAATGGTA TAAATGAATC CATTTAAAAA GTGGTTAAGG  
ATTGTTTAG CTGGTGTGAT AATAATTTT AAAGTTGCAC ATTGCCCAAG GCTTTTITG TGTGTTTTTA TTGTTGTTG  
TACATTGAA AAATATTCTT TGAATAACCT TGCAGTACTA TATTTCATTT TCTTTATAAA TTTAAGTGCA TTTTAACTCA  
TAATTGTACA CTATAATATA AGCCTAAGTT TTTATTTCATA AGTTTATTG ANGTTCTGAT CGGTCCCTT CAGAAATCTT  
TTTATATTAT CCTTCAAGTT ACTTCTTAT TTATATTGTA TGTCATTTT ATCCATTAT GT

SEQ ID NO:221: (Length of Sequence = 314 Nucleotides)

GACTTTGGTT TATTTAAAAA ACAAGCCAAA AAAAAAAAAA AAAAACCCCA ACTTTATATA CAAAGTCAAA CTGAAACCAC  
GGWTTATGGA AAGAGGCAAG AWTATGGGT AACAGGGGAG AAGGCTGGGC CAGAGCCAAT ACCACATTCT GAACACAGGA  
GCCACGGGAA AGAGGTGCTG GTTCTTCTG GCAAGACCGG GGTGACTGGA ACGCAGTGGT CCTACTGGCA AACCCAGCCC  
AACACTGAGC TCTTCTAGC ATGGACTCCA TTCCCGTGAT TGGCCAAGGG AGACCCCTTC CCCAGGAGGC CTGT

SEQ ID NO:222: (Length of Sequence = 342 Nucleotides)

TTCTTCTCT GCGCGGCAC GTGCNAGCA GCCTGCTTCG CCCCCTGTC AACTTTGAGC TGGAGGAGAA GCAACTTTGG  
CAGTGGCCGC GGGGTGGGAA TCCCGCTTCT CCTCGGCAGC AGTAGGCTCG CAAGTCGCTG GGGTTAGGTG GGGCAAGAGT  
TTGCGCGCG CATCAGCGCT TGCTTCGGAC TGTTTCAAC GTGTTTCCAG CGAGCTGGGA GCGGGGGTTG TGAATGCGAG  
TGCTTGGGG GAGGGGGACT TGTTTCTCT TTCTCTAGA GACCTCGGCT TTCAACTGGA TCAACGTTG TCGAAAGGAT  
GTAAATAGGC AAGAGCAAAC TG

SEQ ID NO:223: (Length of Sequence = 376 Nucleotides)

GTGATGGCTG CCTTGAGGGG GACCATCATG TCGGAGACGC ATTGGTGCAG GTCTCACCCC ACAGCCCATG CCCAGCCTCC  
TGCAGACTCA GGTATCCAG CTGGTCGATG GCTCTTTCGA TACCTGGTGC CTCTCTCTCT CCGGCTTGGC AGGCTTCTCT  
GGGGCTTCT CAGATGACTC TTTTGCCCTT TTCTCTGCT TGGCTAACTC CTGGGCCAGC TCTGAACGTG CCTCTTGGC  
TCCCTCTCT ACCACCTCT CCGGTTTGGC CAACTTGCTC ACGGCCGTCT TGGTAGTGGC TTTGAGGCTC TCCTTGCTAT  
CAGCCCGCTG TTGATTTTG CTGGCTTGA GGTGGTAAG GCACAGCCCC AAGAAG

SEQ ID NO:224: (Length of Sequence = 445 Nucleotides)

GTGATAGAC ATTGGCATTG GGGTGGCTTC CACCTTTTGG CTGTCATGAA TAATATTGCT ATGAACACTA ATGTACAATT  
CTTGGCTGA ACGTAAATGT TTTCAATTTCT CTGGGTATT TATCTAGAAA TGAAATTGCT GTATGTAAAC CCTTTGTTA  
ACCTCTGAG GAAGTGGCAG ACTTTTCCAA AGCAGCTGCA CCAATTTAAA TTCTAACCAG CAGTGTPTGA GGGTCCAAT  
TTCTATAT CTTGGTAAC ACTTGTATC TGCCCTTTTG GTTAGAGACA TCCTAGTGAG TGTGAAGTGG CATCTCACTG  
TGGTTTTGAT GTGCATTTCC CTGATAGCTA ATTGTGTGGA TCCCTTTTGC TTTTAGTGA ATGAAATATC TGGTAGTCTC  
GTATGCCAAA CTAAAGCTAA AATTAAAATG ACTCTGCATG ATGGA

SEQ ID NO:225: (Length of Sequence = 403 Nucleotides)

TGCTCTCGG ACAGTTTCCC GGGCAGCTCC TGGCCAGCTT CCAGCCAGA GTCTCAAGT CCAGGGCACC TTGGGCCACG  
CGCAGGCAGA ATCCGAGGTG GTCTGGCTC TACCTGGGC CTCTACTCC CCAGCACCCC TGGAGGAGGC AGGGGCTCCC  
CGCCGCCGAG GCTGCCGCTC CTAGGCCAC CTCGTCATGC TGCTCATGGG GCCACCTGC CTCTGGGCC CTCACTCTGC  
CTAGGGGAGC TGGGCCAGGC ACTAGCCTTT GCCCAGGGAG GTGGGCTCA GGCTGCCAG GTGCTGCAC CCCAGCCGG  
CTCTCTGGG GCTCCCGT CGTCAAGCCT ATATCCGTC TGTCGCCACC CCAGCTGTCC CTGCCAGGG GACTGGCATA  
AAA

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SEQ ID NO:226: (Length of Sequence = 440 Nucleotides)

GTGCCTTAAG GAGAGAGAIT GTGTCTTCC TCTCTCAGGG GTGATAACTC AGGAAGCCTC TGGGTGGGA AGACCATCAG  
 TTCTTTTGTC TTAGGTTTCT TTTCCTGTCC CTCTTCCATC CCCAAGATGT GACCCCATAA AAATTTTTC TGAGTTGGCC  
 AGGCATGGTG GCTCAGCCT GTAATCCAA CACTTTGGGA GGCTGAGGCG GGCGGATCAC GAGGTCAGGA GTTCGAGACC  
 AGCCTGACCA ACATGGTGAA AACCCATCT CTAATAAGGA TACAAAAATT AGCCGGTGT GGTGGCACAC ACCAGTAAGT  
 CCCAGCTGCT CAGGAGGCTG AGGCAGGAGA TTTGCTTGAA CCTGGGAGGC AGAGGTTGCA AGTTAGGCCG GGATTGCGCC  
 GTTTGTACTC CAGCCTGGGC AAGCAGAGCA AGACCATCTA

SEQ ID NO:227: (Length of Sequence = 426 Nucleotides)

GACCAAGAAG TTCCGGTTCG AGGAGCCCGT GGTTCGCTT GACCTGGACG ACCAGACAGN CCACCGGCAG TGGACTCAGC  
 AGCACCTGGA TGCCGCTGAC CTGCGCATGT YTGCCATGGC CCCACACCG CCCAGGGTG AGGTGACGC CGACTGCATG  
 GACGTCAATG TCCGCGGGCC TGATGGCTTC ACCCGCTCA TGATCGCCTC CTGCAGCGGG GGCGGCTGG AGACGGGCAA  
 CAGCGAGGAA GAGGAGGACG CGCGGCCGT CATCTCGAC TTCTCTACC AGGGCGCCAC TTGCCACAAC CAGACAGACC  
 GCACGGSCGA GACCGCTTTG CACCTGGCG CCGTTACTTA CGCTCTGATG CGCAAGGGC TCTTGAGGCC AGCGAAGATG  
 CCAACATCAG GCAACATGGG CCGAAC

SEQ ID NO:228: (Length of Sequence = 278 Nucleotides)

CAGGACCAGG AGAAGATCCT GGAAGATGCA GTGGATGAGT GGACGGGCTT TAACAACAAG GTTAAAAAGG CCACTGAGAT  
 TGTTTTAGAA AACCAACAGC AAAACACTGA CAAGGTACAT AATACAGAT TGGACATTTT AGGGTAAATT CACTGTATTT  
 CCTACTTGCT TGTAGGAAAC CGAGTAAAGT GGAAGAGCTG TCCTGATCAT ATGGCATGCA CACCAGACTG CAAAAGGNGC  
 TCCACTAT TTAACAGGAC TGTGGCAAAA TAGCTTTA

SEQ ID NO:229: (Length of Sequence = 425 Nucleotides)

TTTTTGTTCC CAAGCCTTTG TGACTGACTT TAAATCCTCT CACCTGCAGA ACAGAGATGG CTTCAAAGTG GGGAGTGAGG  
 GAGTGAGCGA GGACCTGGG CTGAGACCTG TTTTCTTCC ATTTCTGCTG TGSCCTTCCA CAGCTCCCTG GTTCCACACC  
 AGGCCCTGCT CTGCCGAGA AATGGATTC CCAGGCCACA GAGCTGTGAG GCCTTTGACT TTGCAGAGAC CAAGCACCCC  
 AGAGGCTGTG CGACASGGCT AGTCCCTGGT GGGCCGGTCT GGGCATGGG GGCAGGGAG ACTKGAGAT GGGGAGGGCG  
 TTGAGAATCC GGGGGTCTT GGATACTTGA CAAATGGCT CAGGTCTTAG CTYTGCTGC CCCACTGATT GTGTGCTTG  
 GCAAGGTGCA AGTYTTGGC TGTTC

SEQ ID NO:230: (Length of Sequence = 382 Nucleotides)

TTGGAGGATG TGCTGCCCCCT CCTGCAGCAG GCGACGAGC TGCACAGGGG TGATGAGCAA GGCAAGCGGG AGGGCTTCCA  
 GCTGCTGCTC AACAAACAGC TGGTGTATGG AAGCCGCGAG GACTTCTCTT GGCGCCTGGC CCGAGCCTAC AGTGACATGT  
 GTGAGCTCAC TGAGGAGGTG AGCCAGAAGA AGTCATATGC CCTAGATGGA AAAGAAGAAG CAGAGGCTGC TCTGGAGAAG  
 GGGGATGAGA GTTCTGACTG TCACCTGTGG TATGCGGTGC TTTGTGGTCA GCTGGCTGAG CATGAGAGCA TCCAGAGGCG  
 CATCCAGAGT KCCTTTAGCT TCAAAGGAGC ATKTTGACAA AGCCATTKCT CFTCAGCCAG GA

SEQ ID NO:231: (Length of Sequence = 398 Nucleotides)

GAGGCTGGAG AATCGYTTGA ACCCAGGAGG CGGAGGTTCG AGTGAGCCGA GATGGCGCCA TTGCACTCCA GCCTGGGCCA  
 GAGCAAGGTT CCTTCTCAA AAACCTGGAA ATCTGTGGG AAGTAGGGGG AGGGCAAGGT TAAAACCTAT GCAGGTGTGT  
 CAATTAGACT TGTTCCAACT TGAGAACCTG AATTTTGATC GTAATTGAAA TGTTCAGAA CAAGTCTGGC AGTTTCATAA

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GGGAGTTTTT AGATGCCAAT ACATTGCAGA TAACCATATT GGTACATTA GGGGAATGAG CATGGGATAG GTGCCTCCCA  
GTTGGTAGGA TAGCATGAGG AGGTTTCAAA AGTAACCSCT TTAAGGGTGA TGTCCAGTAT TTGCTAAGTA ACCAAGGT

SEQ ID NO:232: (Length of Sequence = 272 Nucleotides)

GGGGCTGCAG ACTGAGTTAT TTTATTTCGC TATTTCCAGT TTGAAGCTAC TATCATGGGC GTTTAGAGTT ATACAAATGA  
CACTTACAAA AAATAAAGA CCAAGACACC CAGAGTGAGA TGCATGTTGG GGACGGGGGA GGCTGGCAGC AGGGGGGCCC  
CGCGGYTCA CCCAGGGCT CCGGAGGGG CGACGCTGG CTTCATCCAC CCGGAGGCC CAGGAGCAC CAATCACAGC  
AGGGGCTCTG GCCCAGGTGT CGGCAGCCCA GG

SEQ ID NO:233: (Length of Sequence = 364 Nucleotides)

ATTTTACAGT TTTATTTTAA AATCATTTAC ACATATTTCAT ACAAAGAAAA ATAAATTTCA GGATGGAATC CTGGGGACCA  
TGGTAGTTTA AAAAAAAAAA TCTCTCTGAT CATTAGCTAC TAAAGACANG GCAAGAGGCT TAGCAGTCAT TTCTGGGGGT  
TAGTGTATCT CCCCATGCAG GGGACAAC TGGAAGATCC AAGCTGCTCC CTCATCTTCC TTGATCTAG ATGGGGGAAG  
GGGATTTTCC AATGCTCTCC CCTAGAAACA TTCAAGAAG TACAGCAAAG GCTTATGGTA AACTGGGAAC CTATTTGCTA  
GAAATCTGGC AAGATTGCAC TTTCTGAACC CAATTTTCCT ATAA

SEQ ID NO:234: (Length of Sequence = 217 Nucleotides)

GGCCAGGAGC CAGAGGGCCC CGGGGCCACC CCTGCCGGG AACGTGATGA CCAGAGTCCA GACAGTGTCC CAGAGAGGCC  
GGGCCCCGCA GACCGGAGGC TCTGTCTGCC CTNCGTGGAC GCCTGCCAC TCCAGGGAG GACGGCCTGC CGTCTGCTGC  
AGGAGGCCAC GCGGCTCATC CAGGAGGAAT TTGCCTTGA TGGCTACCTG GACAATG

SEQ ID NO:235: (Length of Sequence = 221 Nucleotides)

AACTTTAAAG TTAGGATTTT AAAATATTTG TAACTGGCTA AATTTTAAAG TCGTGACAAA TAATTACTTA GGTTCAGAAA  
TATACACACA CTACTCTTT AGCCAGTTTC TTTCAGGTT TTAAGTCTCC ATCAGATATC TAGCCATTTK CCTTTGCAAA  
TTACATACCT TCTTAAGAGT GTATTTTAA GATTATTACT TATGCTTTAT GATGATATAG T

SEQ ID NO:236: (Length of Sequence = 221 Nucleotides)

ATAAATGGGT TTCTACTCC TTAGGGACAC GATTGGAAAC AATACATCCC ATGAACACAG GTGAATGTCC CTGGTTATCC  
CTGAGCTGGG CAGTTTCACA CAATCANTTT TNCCTGAGG CCAAAGTCTG TGGTTTGATC ATCTTAGCAG CTTCAGAAC  
AGAAAGTAGG TTTACTTTGT CTCCAAANTC TNACTCTCGG TGCTCAAAGA AGAATGACCT G

SEQ ID NO:237: (Length of Sequence = 251 Nucleotides)

GACATCTTTC TAAGATTCTC TGTGGGAAAA TGACTGTCAA TANAATGCGG GTTCTGGGC CATTGCTCTT ACTTTCATTT  
TTTGATTACA AATTTCTCTT GACGCACACA ATTATGTCTG CTAATCTCTT TCTTCTAGA GAGAGAACT GTGCTCCTTC  
AGTGTGCTG CCATAAAGG GTTTTGGGAA TCGATGTAA AAGTCCAGG TTCTAAATTA ACTAAATGTG TACAGAAATG  
AACGTGTAAG T

SEQ ID NO:238: (Length of Sequence = 327 Nucleotides)

GTTCGTGGCT GTCACAATAA TGCTGTGATA ATGCTGTGGT TTCCAGCAG GGAGGTGGGA GCGGGAGGG GGCTGCAGCC  
TGATGAGAGC CAGCTGAAGG AAGAGCTGCC TCTCCCTTCC TAAGCCCTT CCAAGTCT GCCCCACGC CCAACCAAA  
GACCACTCCG AACAAAGTGA GGATGTGGAT GCTCTGTCTG GTTCCGCTGT TCCGAGAGG GAAAGAAAGG GTAGCTGCAC

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TGACCCCACT GTCCCATAT ACAAGGGTTK GGGGGCAAGA GCATGTGGCT ACTCCAGCA AGGGRAAAAT GGGAGGAGCA  
GTAGAAA

SEQ ID NO:239: (Length of Sequence = 285 Nucleotides)

ATTATAGTIT TATGGTGCTT TAAACCTATC AAAATAGTTG TAAGTAAATG GATTTCTTGT NCTCCCAATA ACAATTCTCT  
GAGCTAGGAT AGATGTCITTT CTGGCCATTT TACAGGTGAT GACACTGACA TAGGGACTGA GTGGGTAGCT TAAGTNCAT  
GGTTACCAGG AGCAGGACCN ACGTTTCCTG NCTCCAGTC TCATCCTGTT TTCCACTGAC CAGGTTGGTT GCTCCCTTGG  
AAAGCAGTCC CTGAGAGTTG ACTTAGAAGT TCAGGGNGAA GAGGT

SEQ ID NO:240: (Length of Sequence = 349 Nucleotides)

TTTTGCCATG TTGGACAGGC TGATCTCAAA CTCCTGGCCT CAAATRATCT GCCCAGCTTG GMCTCCCAAA GYGCTGGGAT  
TACAGATRTG AGCCACTGCA CCCAGCCTGA CATGCCATAG TTTCAGCATT TTCTTGGGCA ATGATCCAAG CTGAAGGCTG  
GTCTGAGGGA TCTSAAGAAG CGTATGAGTT GGAAGAGAGG GACAGAAAGG AAGAAGACAT GTGAAGAGAG AAAAGGAAGG  
AAGCTAGCAG AGGAATGCC TCCAATAGAG ACTGCTGCCT GAAGCTCAGC CCTCTGAAG ATAGGTAGGC CAGGCTGGCT  
TAGCTGAGGC AGTGGGTTAG ACCAGCCCT

SEQ ID NO:241: (Length of Sequence = 233 Nucleotides)

GTGCAGCGGT CTGCCTTCAT CTTTAAATGG CCGGTGOGGT ACAGTTAGTG GACAGACGGG GGATGGGACA CAGCAGGGGT  
GAAACAGGGC AGTCACAGCC GGGGCCGGGG ATCTGGAAGC GGGGGCGGTC CTCCTCTGG AAACACCGTN TCTGGAAGGA  
CACCCTTAGG ATCCCTGAC CTCARGGTGC CACCACAGC GGCTGGTGT TCTGGGAGGC CCGGCTKGAG TGA

SEQ ID NO:242: (Length of Sequence = 372 Nucleotides)

ATATGTACTA CATTTGGTGG AATACGCATG TACAATTCIT CAAAATAGT AAAGAGCAAA ACAACAAAA AATAGTAGAA  
GCACTGGAGA AATACACTAT GGCATAAACT AGTTACGGGT GGGATGTAC ATGGACCATA TCTACACTCT GTGGCAACCT  
TCTTACCTGA CTCCAAGGA TCAGATAATC AAACAGGAAA TTATGGTAGG AAATCAGAAA ATTGAAGTAT GCATTCATAT  
CCTAAGCATT TTATTTTAGC TCAAAATATA AAAATATTCA TCAGTTAGCC AAGCTTTTGN GATGAGAGAT CATAGCCTCC  
TCTTTGATAG GGGGTTTCTT GGGTTTCCTT GATTTTCATG TTCAGAGTTT TT

SEQ ID NO:243: (Length of Sequence = 256 Nucleotides)

CTCACACATT CATACCCAAG GAAGAGGCAA ACACACTCAA GTCCAGAGTT CCCAGTGGTG CCGCCAGAC CTACTGTCCC  
GGGGGIGTTA TGGCTGTCCC TCGGCTTCCC CAGAGCAGCC AGGACAGCCT GCACCGNCTN CCAGACTCTC GCAGGAAGGG  
GAGCTCTGCC CTGGGGAGGA AACTNACAGG CTGGGAGACA AGACTCCAT CGCAGGGACA TGCACAGCAG CAGCCACAGC  
CCCGGGACG GGGCAT

SEQ ID NO:244: (Length of Sequence = 220 Nucleotides)

CAAATGGCAG TTCTCGAGAA TCGACGAGGA ACTTAAATCT GGACTCAGGG TTTCAGTGGC GTCTCCGACT CCCACCACCC  
CGCCCCCTCG NCTGTCTCGC CGCCAGNGT GACCTCCAG CGAAGGAATC TTCTTGGAT GGGTGACCT TGCCANAGG  
TGTTGGACCT GGNGACTAG GAGGCGCTC CANACTAAGG GCGCTCANTG CGCGTCTCT

SEQ ID NO:245: (Length of Sequence = 239 Nucleotides)

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TTCATGCTCA TGTAACCTTC TTAATAGTGC CTGTCTGCT GGGTTTGTAG CTGTAAGAGT TCTGCAAAC TGGCCCTATAA  
 AAATAATTGAT GCTGTCCATT AAAATGAATC TCTCTCTCTC ACTCAGTCTC TCTCTCTGTC TGTCTCTCTT TCTTCTCTCT  
 CCTGCCATGT GGTGTCTCT CTCTACTCCT CTGATTTTGN CCTCTCTCTC TATTCTGCTA CTCTCTCTCC TCTCTCTCG

SEQ ID NO:246: (Length of Sequence = 269 Nucleotides)

GGTTTCACCA GCGTTTAATG TGCTCTGATG TTGACCGTCC CTCINAGINT TCTGGGGAGG AGGGGGTGGG GCGGAGGGTC  
 AGGAAAGCAG GCTCAGCTTC CAGGGTCAGG GAGTTGTGGG CCCAGAGGGG CTGTACACAGT GGATGCACCC TGCCCCCTCC  
 CTCGCCAGAC CCGAGGGTAG GGCAGAGGCA CCTCCTCENC AGCCINTGGG CTGCACCCAC AGGGAATNGA GGGGAGGGGC  
 ACCATTACCA CTGGACCCAC CAAAGACCC

SEQ ID NO:247: (Length of Sequence = 297 Nucleotides)

CTATTCAAAG TTTACTGACC TCCCCAGCCA GGCAGGCCAA CCTTTCGAG CAGGGGAAAT GTCCATCTAG CTGCCCTCTG  
 CTGGGTTCGA GCCTATGCCA TGAGAGGGTA CTGGAAGCAG GAGGGAGCCC TGGCTAGGGC AGGCCTTAA CCAAGGGAA  
 GCTGAGCAGA GATCTGCACA CTCAACCCCA TTTGATATT TCTCTCTCT CAGTCATGGC CAGCGTGTG GTGACTAGAC  
 CCGTGCCAAT AGTCCGGTTC CCATCTCGCA GGTGAAAAG ATGGCCCTTC TCTTAAG

SEQ ID NO:248: (Length of Sequence = 281 Nucleotides)

ACAACAAGCA CACCAACTAT ACCATGGAGC ACATCCGCGT GGGCTGGAG CAGCTGCTCA CCACCATTGC CCGCACCATC  
 AACGAGGTGG AGAACCAGAT CCTCACCOCG GACGCCAAGG GCATCAGCCA GGAGCAGATG CAGGAGTTC GGGCGTCTT  
 CAACCACTTC GACAAGGATC ATGGCGGGGC GCTGGGGCCC GAGGAGTTC AGGCCTGCCT CATCAGCCTG GGCTACGACG  
 TGGAGANCGA CCGGCAGGGT GAGGNGAAG TTCAACCGCA T

SEQ ID NO:249: (Length of Sequence = 383 Nucleotides)

AGCGCATCCA CACCGGGGAG CGGCCCTACC CTGCTCCTA CTGTGGCAGG AGCTTCGCT ACAACAGAC ACTCAAGGNC  
 CACCTCCGTT CAGGCCACAA TGGAGGCTGT GGGGGTGATA GTGACCCATC AGGTACAGCA CCAACCCAC CAGGTCCCCT  
 CATAACTGGG CTGAAACTT CTGGCTGGG TGTCAACACT GAAGGTCTAG AGACCAACCA GTGGTATTGG GGAAGGGAGT  
 CGAGGGGGAG TTTTGTAAAT CCAAATCTCT GTGNTTCAT GCTTTGTATA TGCTCAGAC AGGGCACAAT AATCCAAGAG  
 AAGGTCTGTG AGCCCNATC CAACACCCAC AGTAATTATA ATCTTGGCAC ATCAATGGAA TTT

SEQ ID NO:250: (Length of Sequence = 397 Nucleotides)

GTATCCTACG TTACAACAAT AATATCATGG GAGAAATAGA AATAGCCTAG TTGCTTCCA ATAGAAACTG CTTTAAACAT  
 GGGCTGTATA TAAAAATATT AAAGAGAAAC AAACTGTAC ATTCTCTCAT TGCTCCGCTA CAGACAACCC ATGTCATAAC  
 CTGTGTGCAA ATATTTTCT CCTATAGCAG TAAGTACAGC ATTAGAAGGT GATTAGAGAG TCTGTGTATG AAACACAAAT  
 GTATGTTTTT ATGATTTTT ACTTTAGAAC ACTACAGAGT TCTGGGACC GGGGTGAAG GCATTTAGCT GGGGTGGTTT  
 GTGTGGGGT TAAATACCTT CCCACTGCA AGTGAATTGC CTGNTCCGC TGCGGAATC CTGTTCITG GGTGGGA

SEQ ID NO:251: (Length of Sequence = 276 Nucleotides)

GGCCATAAAA GAAAGAGCCT GTTACCTATC CATAAACCCC CAAAAGGATG AGACGCTAGA GACAGAGAAA GCTCAGTACT  
 ACCTGCCTGA TGSCAGCACC ATTGAGATTG GTCTNCCCG ATTCCGGGNC CCTGAGTGC TCTTCAGNC NGATTTGATT  
 GGAGAGNGA GTNAAGGCAT CCACGAGGTC CTGGTGTTC CATTTCAGAA GTCANGACAT GGACCTGCGG CGCACGCTTT  
 TCTCTAACAT TGTCTCTCA GGGAGGGNTC TACCT

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SEQ ID NO:252: (Length of Sequence = 314 Nucleotides)

CCTGAACAGT CTGTTTCATT TGACTGTTTG GGGGTCTCCC AGTTTAAGCA AGATATTTAA GCCTTATTTC TCTTGGCATG  
CTTGGATTCC CCAGTAAAAA AAACCTCTGC CCTGGGCTGA CAATCAAAGT TCTGGGAAGT AATATGGATA AGCAAGCTGG  
AAATGGAGAA GGCTATTAC TGTGCTGGG TOCTACTGTT TTCTGCTNIGG GAACTGCTTT TCCATTAGGC CTGGTGTGCC  
CTGGAAGGGA NGAGCCTCTT GCAGAGACTA CAATCTTGA TGGGTCTTTT GCCAAGTTTG AAGGTAGGAA CCCA

SEQ ID NO:253: (Length of Sequence = 293 Nucleotides)

GAACACTCTG CTCAGCCAA GGTGGTGAGG GCAGCTGTC CTAACAGCG CAAAGGCAGC AAGCCACAGT CCCACAAGCC  
TCAGCTACC CGTAACTGC CACCAAGAA GGACATGAAG GAACAGAGA AAGGAGAAGG GAGTGATAGT AAGGAGAGTC  
CAAAAACCA ATCAGATGAA TCAGGGGAGG AAAAGAATGG AGATGAGGAT TGCCAGCGAG GCGGGCAGTA GAAGAAAGGA  
AACAANCACA AGTGGGTTC ATTACAAATA GACATGAAGC CTGAAGTGCC CAG

SEQ ID NO:254: (Length of Sequence = 413 Nucleotides)

CTTTTCTTA ATATATTAAT ATTTACCAAG GCAAGACAGT GATTTATGGA CATTTAAATT AGTTTAGCTT TGTTCTGCTG  
TTCTAAACA TTGTTACTG TCTGATAGAC TTTTAAAAA CAGTGCCTTT CCAGGATGAT TTATGATATG CAGTATTGTT  
TATAGATGCC CATGGCTTAA CCTTGAAAAG TCAATTAAGT GACACAATTA AGAGAGATAT GAATAGTGGT AGAAAAAGCA  
TGTACTCTGG ATAAGTGGG GTAATCTAG TATTGTAT TCTGTGAGT AATATTGTA NTAGTATTTT TTAGAAGGTT  
TAATTTT TTTT ATGGGTTATA AATTCATGTC ACTCTCTG C AATGGGTACC ATCAGTGGGA ATGCTNGAAT TATCCATGCT  
TTGGGGTTA AAA

SEQ ID NO:255: (Length of Sequence = 376 Nucleotides)

GGGTCCAGG GAGAATCAAT ATATCTAGTA TAGTTTATAT TTGTACCTTC TCTCCTTAAG AGTTACAGTG AGTGACTCTA  
CTCCTCAAAT GGAGCACCTC TCTCCAGGAG AGTAAGAAGA TCACATAAAT AGAAAGTGAG CTTTGGAAGT TAACAGACAT  
AGGTTCAAT TCAACTCTGC TACTTAATAT CCATATTGGT TTGAGTTATT TAACCTTGAC AATCCACACT GTAAATGGG  
TAAATAATA ATACCTCTCT CTCAGAAGTG TTACAAAGTT TATATGAAAT AATGTGCTTA AAAAGCTGGG TACATAGTAG  
GAGCTTAGTC ATTGTTTATT TTCTCCTCA TACCATAACA TGTTCATT C TACTG

SEQ ID NO:256: (Length of Sequence = 241 Nucleotides)

GTAGAGATGG GCTCACTATK TTGCCAGGC TGGTCTGAA CTCTGAGGT AGGAGGATCG CTGAGCCTG GGAGACAGAG  
GTTGCAGTGA GCCGAGATCA CGCCACTGCA CTCTGCTCTG GGTGACACAG TGAGACTCTG TCTTAAACAA AACAAAACAA  
AAAAAGGCCA GGCGCAGGG CTACACCTG GTAATCCAG CACTTTGGGA GGCCAAGGTG GTGGATCAC CTGAGGTCAG  
G

SEQ ID NO:257: (Length of Sequence = 406 Nucleotides)

CAAGGGTGT CTTGCCAGA TCACTGTAA TGATTTGCCT GTGGGACGCT CCGTGGATGA GGCTCTGCGG CTGGTCOGAT  
TAAGAAAACC AAGAGAGGCC GGCACGGTG ACTCAGCCT GTAATCCAG CACTTTGGGA GGCCGAGGTG GCGGATCATG  
AGGTCAGGAG ATTGAGACCA TCTGGCTAA CACAGTAAA CCCGCTCT ACTAAAAATA CAAAAAATT AGCTGGGCAT  
GGTGGCAGC GATTGTAGTC CCAGCTACTA GAGAGCTAA GGCAGGTGAA TCGCTGAAT CCAGGAGGTG GGGTITCAA  
TGAGNCCGAG ATCGTACCAC TGCACTCCAG CCTGGGGCAA CAGAGTANGA CTTCTGAACC CCCAACCAAC CCNCCAACCC  
CCCGCC

SEQ ID NO:258: (Length of Sequence = 157 Nucleotides)

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GAAAAGAAGG AAGGAAAGAG GGGAGGGAGG GAGGAAAGGA GAGAGGGAGG GAAAGAAGGA GAAAATGCTG GAGCAAAGGA  
GGTTGGTTAC ATGATTTCTC TAATGGCAAT GAGCTGCTTT CTGGATGAAA TACAGAATCA GAGCGAGACT CCGTCTC

SEQ ID NO:259: (Length of Sequence = 361 Nucleotides)

AAGCAGATAT AAATGGGACC ACTGTGAATC AAAGGGGAAA AATTCCAGGA AAAAAAATT CCAATAGCTT CACAGTTTAA  
CTGAGGTTTT GGAAAACTT AAGTGAATTC AGCTGATGTT TGAAATATCT GTCTACATTT AATTAGATGT GTTGATTTTA  
CCAAGGAGGC ACAAATATGT AGTTCTGTAG ATTTTAATAC TAACTTTTCC AGTAAGAAAA ATAATACCAG GTGATTTCAA  
AAAGGGCAGT GATCTATAAA CACTCAAAT GCATCTTTGA ACAGGGGAGC AGAAATAGCT AATTTAATGA AAACAAACCT  
TAAGCACTTT ACTTGGCTTC TAATAAGGCA TCCCAAGAAA A

SEQ ID NO:260: (Length of Sequence = 349 Nucleotides)

CAATACATGT ATACAGTGA CACTGATCAA ATAAGAGTAA TTAGCATATT TATCACCTCA TTCTTTTGT GGTGAGAACA  
TTTAAATCC TTCTTTTGT CTATTTTGAA ATATACAGTA CATTGCTATT AAGTATAGTC ATCTGGCTGT GCAATAAAAC  
ACCAGNACTT ACCCTCCTG TCTGTGACTT TGTACCTGT TCACCACCC TCCAATCCTC TAGTAACTAC CATTCTACTC  
TCTACTTCTA TGAGCCTGAC TTTTTAAAT TCCACATGTA AGTGAGATTA CATGGTATTA TTCTCTCNGT GGCTGGCTTA  
TTTCACITTA ACATAATGTC CTCTAAATT

SEQ ID NO:261: (Length of Sequence = 415 Nucleotides)

GGAAGATGAG GATCTAGGTG TGAGCGTGAC GAGCCTGAG GCTGGGCAGG CAGGGAGCTC TGCCTGCACA ATGATGTAGC  
CATGTGTGGC CACACCAGCA CTGGGCAGCA CCTCTGGGA GGGGGCAGG GCAAGGACAA CTGGAGAGAC AAAGCCAGAT  
GGGCCCACGT CCTTAGAGT GTGTGTGCAC GCACATGTGT GTGTGTGTGT GTGTAATACG CAGGGCAGAA ACACACCATG  
TAGGTCAGGC AGGACAGAAA CACATCATGT AGGCCAGGC TGGTGGCTCA GGCTGTAAAT GCCAGCACTT AGGNAGGCCA  
AAGTGGGGGG ATCACCTGAG GTCAGGAGTT CGAGACCAGC CTGGCCAACA TTGCAAAACC TCATCTCTAC TAAAATTCTA  
AAATTAGCCA GCGT

SEQ ID NO:262: (Length of Sequence = 382 Nucleotides)

GGCATGGGGT CTGGCTTTAA TGGTAACTG ACGTGGGTCA CTGAACTGT TCAGGCTGAT CTGAACTCC TAGGCTCAAG  
TGATCCTGCT GCCTTGGCT CCCAAGTGC TGGAAATACA GGAATGAGTC ACAGCACCCA GCCGGCTGTG TTTTGTTTT  
TGTTTTTAC CCCGACAGGT NCTCAGTCAG TCGTTAGCTG GAGTGAAGTG GCGTAACACA GCTCACTGCA GCCTTGATCT  
CCTGGGCTCA AGTGATCCTT CCATTTCTTC CTTCAGAGT AACTGGTACT GCAGGCCAC GGCACCACAC ATGGCTAATT  
TTTAAATTC GTAGAGACGA GGTCTGCCA TGTCTGCTCA GGCTCCAGCT GTGTATTCT TT

SEQ ID NO:263: (Length of Sequence = 447 Nucleotides)

TGTATCAACT CAGAATTCC AGAGAGCTCT TCCTGGCTGA AAAGATGTCC AAGGATCATC TCCGGAATGG AAGAGGTGAG  
GCCTGTTAGC TTGTGGGCTG CCCAATCCAT CCAACCTTG GCATTGGGAT CAATGTTGAT GAGGACAAGA CCTTCAACAG  
TGTCGGGGTG GTTAAGAGCA TATCTGCCA GGATGTAGGC TCCAGCTCCA ACACCAACTC CAATTATTGT AGAGAAATTT  
AGGTACTGCA GGACGCAAGG GATCATGTCT GCAAGCTGGT CCAGAGATGG GTACTGATAT CCCAAAGGGA ACACAGGGGC  
TCCCTCTTCC ATTCCAGGGG CATCCACATG GACCCGACA AAGTTCTGAA TGATTTCTG CATGTCTCG AACTKGAACA  
GTGGCTGGAG GAAAGATTTA TAGTTGAGTC CACATCGGT AGGTAAG

SEQ ID NO:264: (Length of Sequence = 317 Nucleotides)

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TTTTCGCTGT CAACAGACAG TTTATTCTAT ATACAAACAC AATTTTGTAC ACTGCAATTA AATAGAATGG AATGAGCGCT  
 CCTCCGCAAT CCTCCCCGAG TGAATGGTTT GGCCCGCGGC CACTCCATCC COGAGTGGGA CTGGACCACG GCCCTGGNTG  
 CTGCCACTGA TGTGNGGCC TGACCCAC GTCCCTATGC CCGAGGCGCA ANTCGTCTCT CCCGGGACC CCAAGNCTGG  
 NCCACACGCG GGGAGGGCGG GGCCATGGAG AAGGCACTGC AGGGAGCACC AGGCAGAGCC GTGTTGAGGC CGGCCGG

SEQ ID NO:265: (Length of Sequence = 270 Nucleotides)

GCAGAGCAGG TGAAGTGAT CAGGAACCAT AGTTGACAGT TCCAATCAGT AGCTTAAGAA AAAACCGTGT TTGTCCTTC  
 TGAATGGTT AGAAGTGAGG GAGTTTGCCC CGTTCTGTTT GTAGAGTCTC ATAGTTGGAC TTTCTAGCAT ATATGTGTCC  
 ATTTCCTTAT GCTGTAAAAG CAAGTCTGC AACCAAACTC CCATCAGCCC AATCCCTGAT CCCTGATCCC TTCCACCTGC  
 TCCTGTGATG ACCCCCCCAG CTTCACCTCT

SEQ ID NO:266: (Length of Sequence = 297 Nucleotides)

ATGAGGCGAG GCCTGCGAAG TGGCTGGCAT GCAGCAGGTG CTAATGAGTG TTGCAAAGGT GATGTACGC AGGCAGCTTC  
 CGTGGCCAG AGAACAATG CAGAGAAGGG ATAAGTAGGG CTTAGTGACT TTGACGGGTC AATGGAAGAA TGACCCAAAG  
 AAGGCTTCAA GGCCAGGCCT GCAGTCTCC ACCACAAAGG CCCTCACTGA TAGCACCAC TCCCCACAC TCAGCTTTTG  
 GGCTTAGGTC TGGGTACCC AGCTAGAAGC CACAGGACCC TGAGGCGTCC GAGGGGT

SEQ ID NO:267: (Length of Sequence = 387 Nucleotides)

CTGTTTTCA TCATGAGCTC GATCAGATGT CTCTCGATCT TCAGACTGGT GGTCCTCTAT AATGTCTGT GCACGCATTC  
 TTGAGCTTC CAGGATTTCT GTCTGTCTC TCTGTTATC TACAGAAGAA ACTTCTCCT TGAGTTCCTG TTCTGTAG  
 CGCTTGAAC TCTCTTCTT TTCTGGTTA CGATCCTCT CTTCCATCT ACCCTGTCTG TCTCTGTGA GGTGCGAGGG  
 ACTAAGAGAA CGAGATTCCT GAGGTCTAC AACTTGCTC AAGAGTCTGT GTTTTTCAT TTINATCAT CTCCACTGT  
 GTAGGCATCA CTGTCCGAG AATGTTACG CCGGCGCTT CGGGGACTG TCTAGGCTG GGACTCC

SEQ ID NO:268: (Length of Sequence = 318 Nucleotides)

CCTGAAGGTT ACCTCTTTGG AGAGAACATG GATCTGAAT TCCCTGGCAG CCGCCCGTC CAGTTTCCCT ACCTCACTCC  
 TGCCCCCAG GAGCCGTGA AGACGCTGC GAGCTGTGA ACATCCGAA AGACTCCCTG CGGCTGGTGA GGTACAAAGA  
 CGATCCGAC AGCCCCACG AGGACGGCGA CAAGCCCGG GTGCTCTACA GCCTGGAGTT CACCTTCGAC GCGATGCC  
 CGGTGGCCAT CACCATCTAC TTCCAGGCAT CGGAGGAGT CCGAAGCGC AGGCGAGTAT ACAGCCCCAA GAGCCCC

SEQ ID NO:269: (Length of Sequence = 422 Nucleotides)

ACATGCTAT TCAGGCTTT TGCCATTTT GAAATAGCAT TGCTGTCTT TTTGCTGGAT ATTAACCCCT TGTCAGGTGC  
 ACAGTTTGA AGTTACCTTT TCTCATCTA TAGGTTATCT CCTCACTCTT GATTGTTCT GTTGCTGTGC AGTAGCTTTT  
 AAGTTGGTG TAATACCAAT GTGTTTCTC TGCTGCCCT TTAAGTTTCA CTGGGTCAA AGTTTAAAT TTGTGAATTC  
 CTATATTTT AGGGCAATTC TCCTGCCACT GTTGAATTA TGCTCAATC TATGCAGTAG AATATTAGTG TGAAATGCTT  
 CTGTACCAAT GGAGATGAT CTGGATGGT TCTATCATAA ACCCATACCT CATCAACACA AACTGCAATT ACACAAGGGC  
 TCTATATCAT GGATCTCAT TT

SEQ ID NO:270: (Length of Sequence = 376 Nucleotides)

GAAGAAGAGC CCAGACCTAG GGGAGTATGA TCCACTTACC CAGGCTGACA GTGATGAGAG CGAAGACGAT CTGGTGCTTA  
 ACCTGCAGAA GAATGGAGGG GTCAAAAATG GGAAGAGTCC TTTGGGAGAA GCGCCAGAAC CGACTCAGA TGCTGAGGTT  
 GCAGAGGCTG CAAAGCACAT CTTTCAGAAG TCACCACGGA GGGCTACCCC TCAGAACCCC TTNGGGGCTT GGAACAGAAG

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GCGGCTCCT CCCTGGTGT ATATGTGCGC AGTCTGTCT TCCTGCTTGA CTTTGGGGAT CTCGATGATC CTGGTGCTCC  
TGTTGTCTTT CCTGATCCCC TGCTCTCCA GAGATCTTGA CAGAACTGGA GCGCA

SEQ ID NO:271: (Length of Sequence = 346 Nucleotides)

TGTTACGTT CCCTTCTTT GTCTTCTTT TTCTATCTT TATCTACTT TCGACTCTC TCCTTTTCC TCTCTTGTTC  
TTTAGCCTCA CCTTATGCT TATGACTGN CCCACTAGA TTCCACGTT GATCATCAAT TTTACGNTA TCTCGACTCC  
TACTGCGACT GGCACGATT GTGTCTTAT CCTTGAGCG ACTTCTACGA ATGCTTATGA AAAAGAATCA AGTTGNCAC  
CAAATGTTT ATAGCAGTAG GAAATTTCTT TTAGAGACTT CTGATGGGAA ATTTGAAGTG TATGTTGCTA TCAGATCAAG  
TGCAGGAGAG GTATAAGGCT ACTGGA

SEQ ID NO:272: (Length of Sequence = 394 Nucleotides)

GTGTGTGTG TTGAGTCGA GTCTCGCACT GTTCCTGGG CTGGAGTGA ATGGTGCAAT CTCGGCTCAC TGTAACCTCC  
GCTCCAGG TTCAAGCCAT TCTCTGCTT CAGCTCTTA GTAGCTGGGA TTACAGGCAC CTGCCAGCAC ACCTGGCTAA  
TTTTTATAT TTINAGTACA GACAGGGTTT CACTATGTT GCCAGGCTG NCTGAACCTC CTGACCTTGT GATCTGCCCA  
CCTCAGCCIN CCAAAGTTT TCAGAAATTT TTAAGGAAAC ACTTTTAACC CTTAAGGCTT TCTTTCAAAC TCAGATCCCC  
TTACACAATT GATCAGACGT GGCAAAGTT TGCTTCAAAG TTTTGGACT GGGTTTCCAC TTTAGGCTTA CTGA

SEQ ID NO:273: (Length of Sequence = 259 Nucleotides)

CAACCTGTAC CCAGGCTGCG AGAACGTAG TTTRAGGAGC CGCAGCATGA TGTTCGAGCC GGTCTTACC AAAGGRATGC  
TGGAGGTGTT TKTGGCCCCG ACCCACCACC CGCACTGCTC GGCGATGAC CAGTCCACCA AGGSCATCGA CATCCAGAAC  
GCTTATTTA ATGGAGTTGG CGATTTACG GTGTGGGAGT TCTCTGGAAA TCCTGTGTAT TTCTGTGTW ATRACTATTT  
TGCTGCAAT AATCCACG

SEQ ID NO:274: (Length of Sequence = 348 Nucleotides)

TCCAGTTGT CCGATTGTA ACTCAAAGG TGAATATCA AGTGTGTTT TTTCATTCCA TGTGCCAGT TAATCTTGCT  
TTCTTTGTT GGCTGGGATA GAGGGGTCAA GTATTAAAT TCTTCACACC TACCTCTCT TTTTCCCTA TCACTGAAGC  
TTTTTAGTGC ATTAGTGGG AGGAGGGTGG GGAGACATAA CCACTGCTTC CATTTAATGG GGTGCACCTG TCCAATAGGC  
GTAGTATCCG GACAGAGCAC GTTTCAGAA GGGGACTCT TCTTCAGGT AGCTGAAAGG GGAAGACCT GACGTACTCT  
GGGTTAGGTT AGGACTTGCC CTCGTGGT

SEQ ID NO:275: (Length of Sequence = 396 Nucleotides)

GTGTGGTGA TTGTGTCTG GATAAAATG GAGTTCAAGA AACAAACAG AACTACAAG TGCCCTTCG CCCCAGGTC  
ACCGAGTGG CAGGGCAGT ACCGCTGCTC TCAGGCTGCC CAGTGTGGAC CTGCTGTG GATGCTCCT CCTCCAGTC  
CCTCGCTCC TGTGTCCAG CCACATGCAC CTTCCTCTA CCTCTGGGAT CCTGCACCA GGTCTGCCCC TGTCTTCTCA  
GGGCTGCTCC TTTTGNCCA CAGGACCTCA GCTGGAATGT TGCTCTCTC AAGAGGCCCT CCGACTATT CAGCTCACAG  
TGCCACCCA GCCACAATCT GCCATGTGCT TTGGGGATT GTCTGTAAAC TGCAACATA CTGGCAGCCC ATAAC

SEQ ID NO:276: (Length of Sequence = 381 Nucleotides)

GGTGTGGGG AGGCTGCGA AGGGGGCAG CCGGGCAGC CGGCGCAACC CCGNCCCAG CCGCACCCAC CGCCGCCCA  
GCAGCAGCAC AAGGAAGAGA TGGCGCCGA GGCTGGGAA GCGTGGCGT CCCCATGGA CGACGGGTT NTGAGCCTGG  
ACTCGCCCTC CTATGTCTG TACAGGGACA GAGCAGATG GGCTGATATA GATCCGTGC CGCAGATGA TGGCCCCAAT

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CCCGTGGTCC AGATCATTTA TAGTGACAAA TTTTAGAGAT GTTTATGATT ACTTCCGAGC TGGTCCTGCA GCGTTGATGA  
AAGAAGTGAA CGAGCTTTTA AGTTAACCCG GGATTGCTAT TNAGTTAAAT GCAAGCCAAT T

SEQ ID NO:277: (Length of Sequence = 206 Nucleotides)

TTAATACGAC AGGGCTGGCG CCGAGTAAT TCAAGCCCTT CGGAAGTGTC ACCGGCTGCC AGGCCTCGGA TGCAATCCTG  
GAGGCGGGAG ATTGCGCCIN AAGACTGGCT CGAGCCGCC AGGGGCTCCA TGGGAGACTA ACGCGGAAGT YCCAGCCGTC  
CCAGTGCCGT GACGTCCCCC CTGGGTGGGG OCTGCACCCG ACTACT

SEQ ID NO:278: (Length of Sequence = 260 Nucleotides)

ACCTGTAATC CCNGCACTTT GGGAGGCTGA GGTGGGCAGA TCACGAGGTC AGGAGATAGA GACCATCCTG GCTAACACGG  
TGAAACCCCA TCTCTACTAG AAAAATACAA AAAATTAGCC GGGCATGGTG GCGGGCGCCT GTAGTCCAG CTACTCGGGA  
GGCTGAGGCA GGAGAATGGC GGGAACCCGG GAGGCGGANT TGCASTGAGC TGAGATGCGC CCGTCTCTCC AGCCTGGGCA  
ATAGAGTGGG ACTCCATCTC

SEQ ID NO:279: (Length of Sequence = 308 Nucleotides)

GTGTCGGGGC TCAGGGTTGG CCAGCTTGCA GAGGAGCAAG CTAGTAGAAA TATTGCAGGG TTCCCAAAAC CAGGTCAAGC  
AAGATGCCAT GTCACCCCTG AGCATGCTG TCTTCCGAGG GGTGTACCTC TTGGCTGGCA AAGCCAAGGC CAGTGGGNAC  
TTGTATAAAT CACATGGGTA TGTCTTGGT TCAGTGATCT TGGAGTGATG ATGGTAACTN ATGAACAGAG AACTTTYYAG  
AACTTKGGTC CTGCTTCCT CCCGAACT AGACAAGTTT CACCCCTCCT CCGTACCCA ACCCCATT

SEQ ID NO:280: (Length of Sequence = 402 Nucleotides)

ATTTTAGCAG CTTTCTTGAA ATTAAATA TATGTGAAG TATCTCATTT ATATGCATTT CTAGTTTCTT TATACAACAG  
AATAACTTCT TTTACATCAA ATTTCTGAAT TTGACTAAAT TTAGAAATAA TGAATCTCA TCCATTAAAT ATAGTCATAG  
AAGGAAGGAA ATATGAAAT TAGGATTCA GATGTTTGAA CATAAAGAT AATTTTAAAC ATTGTCAGTA ATCTATTTCT  
TTTTTTTTTC GAGACGGAGT TTTGCTCTGT CACCCAGGCT GGAGTGCAGT GCGCGGTCT TGGCTTACTG CACCCTCTGC  
CTCCAGTTC AAGTGGATTC TCCGCTCG NOCTCTGAG TAGCTGGGT TACAGGGCA TGCCAACATG CCGGGGCTAA  
TT

SEQ ID NO:281: (Length of Sequence = 313 Nucleotides)

GAGAATCCGT CTAAAAAGA AAAAAAGAAA ATTATAGAGG GAGATGAGGT GGGACAGAGT CTGGCAGTTC ATCAGGGGGA  
CTGAGAAGGT GGCATTGGA GGAGAGGAGG CAGTGAGCTG TGCAGTGTCC AGGCAGCCAC CCTTCCAGC GGCCACCATG  
ACGGTGTCTT CATGCTTTA ACCATTAGTA ATCATTCATT CATTCATTCA TTTATCCGAC GTCAGCTGGA GGNCTTGCC  
GNGGGGCATG CGCTTAGATT TNGGAGGCCT TCGGGATGC TTGCGCTCCA ACGGGGAAG GCGACTTGG GCT

SEQ ID NO:282: (Length of Sequence = 217 Nucleotides)

TGACCTCAGT TGATCCACC ACCTTGGCCT CCCAAGTGC TAGTATTATG GGGTGAACC ACCATGNCCA GCGAAAAGC  
TTTTGAGGG CTGACTTCAA ATCCATGTAG GGAAGTAAAA TGGANGGAAA TTGGGGTGCA TTTTCTAAGG ACCTTTCTAA  
CANATGGCTA TAAINTAAGG GGTTAGGGT CCTTTTTTTT TTTTCAGGA TACATT

SEQ ID NO:283: (Length of Sequence = 327 Nucleotides)

TAGAGAGCGC TTTACTCTG GTCCATGCG GTAAAGATGT GGCTGGGCCT GACAAGGCTC AGCCTCCAGT CTTAAGATGG  
GCACAGAAG GCAAGAAGTA AGATGACGAG TCCAGAATT AGGACAAGCC ATGAGCCAAG GCCTGGTCTG AGCAAGGGCA

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GCCCCCTGTC CCAGACACAG GCACCCCCAA TCTCATTITG GACAGAGCCA ACGTGGGGGG ATCTCCCGG GCCTGGGCCT  
GTCAAGTCTG CCTGCAGGAC CCTGCCATTG TGCTCAAATC ACAACCAITTT TTTGCTTCCA ACATTTTAGG GTGCTTGTC  
AGTGAGT

SEQ ID NO:284: (Length of Sequence = 340 Nucleotides)

CTTTGGAAAT GTAAATTGTT ACAAACITAC TTTAGAGCAA ATTTAGTCAT CCTTCAAAAA TTAAATGTA TACTTATTTC  
CTAAGAATTC GTTTGGCTCA CACAATTGTG AAAAGATAGA TGTACACCAG TGTTCATTAC AACAAATTATG CAACAAATCT  
ATTATGTGCC AGACATTATT CGGAACCTG GGAATACATA AGTGAACAAA GCAGATTCCT GATCTCAGGA CCTGGGGTCA  
GGGGTCAGGA GAAGCCAAAA AACACGCTNG AGAAATACTT TATGCAGTGT GGGGGGAGTG CTACCAGCAG AGCAGGGGAT  
GGNGATGTGA AATCTTGITG

SEQ ID NO:285: (Length of Sequence = 335 Nucleotides)

GACATTCACG GAGGTGGGTT CGACCTCCGG TCCCCCACC ATGACAATGA GCTGGCACAG TCGGAGGCCT ACTTTGAAAA  
CGACTGCTGG GTCAAGTACT TCCTGCACAC AGGCCACCTG ACCATTGCAG GCTGCAAAAT GTCAAAGTCA CTAAAAACT  
TCATCACCAT TAAAGATGCC TTGAAAAAGC ACTCAGCAG GCAGTTGCGG CTGGCCTTCC TCATGCATC GTGGAAGGAC  
ACCCGTGACT ACTCCAGCAA CACCATGGAG TCAGCGCTTC AATATGAGAA GTTCTTGAAT GAGTTTTTCT TTAAATGTGA  
AAGATATCCT TCGCG

SEQ ID NO:286: (Length of Sequence = 399 Nucleotides)

GCACAATTAT TAAAAAGAGG CCACITAAAT TCAACTCTCC ATGGATACAG TGCTGTGGC AATGTTAAT TAGAGATTAA  
AATTGAGGAA TTGAATAATT GAGGTGTCTA ATGAATTGA AAACCTAGCA AAGCAAGGAG AGCTGAGCGT TTTTCCGACT  
TAGCTTTTCT TTCTCTAACC CTTTCTCAT TTCCTACTAT TATCACAINT CTGGCCTTGA CTGCTGAGTT TATTACTACC  
CATAACCTTG GCCTAAGTGG AAACAAAAAA GCTGTAGCCT CTTTGTCTGAG CTCTGGAGA CATTGTGTCT ATTGGATTTA  
TGACATGTTT AGAAGCTTGC AGTTGCAGGA GGCTGACAA TATGAAAATG AGATATGNTG GGCCACCAG CTTTCTGT

SEQ ID NO:287: (Length of Sequence = 294 Nucleotides)

TTCCAGTTGA ATTCAACAGT GGACAAAATG AGGAAAACAG GTGAACAAGC TTTTCTGTGA TTTACATACA AAGTCAGATC  
AGTTATGGGA CAATAGTATT GAATAGATTT CAGCTTTATE CTGGAGTAAC TGGCATGTGA GCAAAGCTGT TTGGCGTGGG  
GGTGGAGGGG TGAGGTGGGC GCTAAGCTTT TTTAAGATT TTNCAGGTAC CCTTCACTAA AGGCACCGAA GCITAAAGTA  
GGACAACCAT GGAGCCTTCC TGTGGCAGGA GAGACAACAA AGCGCTATTA TCCT

SEQ ID NO:288: (Length of Sequence = 391 Nucleotides)

TCTACAGATG AGGAAAGCAA GCCTCAAGCA AGGGGGGCCT GATCCTTTCC CTGTTCCCTG TGTATTCCCT GTCTGTGGCA  
AAGCCCATTT CCTTGATTCT CTTCTCTTA CTTTCATGTT GAGAAGTAGT TTCCTTCTGC AGTTTATTTA ATTTACTGGC  
AAAATGACGT ATTTTATTTT CAGCAATGTT TCAGCTAGAT ATTTGCTTTA TGCAATGAAT GTCATGAAG TACTCATAAG  
TTTTCAAGAA ATGACTGATA TAAATCATGT GTTCCACTAC ATAGTCTAAA TATTTAGTAT TGGTTCATCT ATTTTAATAT  
GTTCAAATTC TGTAAACAA GNCATAGTCA CTATGTGAAG ATAAAAATAG NCAAGTTGC ATTATGACTT T

SEQ ID NO:289: (Length of Sequence = 198 Nucleotides)

CTTATATTCT ACTTTATTTG GTAAACTCA GAAACTAACA ATTCACATCC TCCCACCTTC TTCCTTCCGA AGAAGGCAGT  
TTGCAGAGAC AAAAGGGCTG TGGCGTGGGG ATCATCCACC ATCTCCAGGT TTTACACCCA GGCTACCCAT GGCTTGGCAG  
TCAGGCTCT AGGCTGATTG CTCTCAGAG CAATAGAA

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SEQ ID NO:290: (Length of Sequence = 353 Nucleotides)

GGTTTTCATC TTCGGTTTAC AAAAGTCCTA CTATTTATTT ATTTTAACTT TAATTTAAAT ATCACCTACC TTAGGTAGAA  
 GTTTTCCITT GIGTAATATA ATATAAAACC GACATTTCTT GGGGGCATAA TAGTAAAGAT GTTAACATTT TTTGGTCTT  
 TTTGGATGCT GTATTTGTGC TTCTTCTGAA AGTGATGTGT GCCAAGATGG CTCATGTAAC CCAGTTTGA CTAGGCTATT  
 GATATTCTGT CTGGTTAATT TATTGAACTG GCTTAAAGCT ATACATATTT CCTTTTAGNTGTAA GATATTCTAG  
 ATATATTGGT CTACTGATT ATAATATCAC TGG

SEQ ID NO:291: (Length of Sequence = 163 Nucleotides)

CCTGGTAGGC CTGCTACACA GTCTTGCAAC GNCCTCGTG CTGGGCTTC TGCGGTGAGG CAGGGGAGTC TGCTTGTCCT  
 AGATGTTGGT GGTGCAGTCC CAGGACCAAG CTTAAGGAGA GGAGAGCATC TGCTCTGAGA CGGATGGAAG GAGAGAGGTT  
 GAG

SEQ ID NO:292: (Length of Sequence = 397 Nucleotides)

ACGGGAAGGT GAGTATGINA GTATGINTGC CAGACAATGG TGTTTCCATG TCAATGGAGG TTTCTCAGAG AGAGGTGATC  
 TGGCTGGAGA AAGCTTAATC TGGTGGCAAT GGACAGGTGA CTTTAAGAAG TGGGAACGA GGAAGGAGG CCAGTTTGAA  
 AATNATAACA AGGGTCCAGA CTCAGTGATG CAGCAGTGAC CATGAGAACA GAGCAGCTGC AGGTAGAAGA TGGAGACAGA  
 ACTNGGGAGA TCTGGTGGAG GTAAGCCGCG TGGAAAGATG ATGTCAGGTT TATACCTAGA GGACACATGA TCCATTCACA  
 AAGCCAGGGG NAACCTAAAG AGAAAACACT TAGAATTTN GGAGAAAGG CTAGGGCTGG GCCTTAGACA TGGGCTG

SEQ ID NO:293: (Length of Sequence = 360 Nucleotides)

GAGGTAAAT TTACATACAG TGAAATCCAA ATCTTAAGTG TACCACTAGA TAAATTTTGA TAAATGCATT ATGCCTGGTC  
 TTCACACACC CTTTTCATA TATAGAAAAT NTCAGATAA TTTATTTTGT TGTTTTTTTC ACACACTAAG TTCTAGACTT  
 TTCCAGGTCC GAGGGAAC TAAGGGGGA AAGTACTGT NATAGTAAA AAGATTTTAG GTGTGTTTGT TTTTAAGGTG  
 CAGAAACACA TGCAGATTT AAGGTCTGCA ATCTCTGCTT TTTGTTATTG TTCCAGTTT GATCTCAGTG ACATTACAAG  
 CAAGCAGAAA CACTCAGACA TGAAATGGCC CAG

SEQ ID NO:294: (Length of Sequence = 321 Nucleotides)

TTTTTTTCAG GNTTCAACCG TTTTATTGGG AGGTTTTGTT TTCTGTGAAA TACACTAGAG GGTGGGGAAG GGGACACATT  
 CACTTTGCAA GATAAGGGTT TCCCACCACT AAAGGAAAGG CATGGGGCAG GGCACACTGG GGTITGGGTC CGTTTTCCCA  
 CCTCCTCTG CTGGCTCAC TTTCTTTTTC TCTCAGCAAG TACCACAGAA CACAAAGACA AGAAACAAA CAGCAAATCA  
 ACCTCCAACG GGGCCATGCC AAGCCTTCCC CACTCCCCCA GGCTGGGCAA GGGCTGGGAG GGGGCTGGG CAGCTCACTC  
 G

SEQ ID NO:295: (Length of Sequence = 165 Nucleotides)

GACACACAGC GCCTCCGCC CCGCACAGG GGCATGTCCA GAGGTGCTGT GTGTACCAA CTGGTCTTCT AATTTGGAAG  
 GAGTTGGAAA GGCCTTTTGT TTGATGAAAA GTTGGAAACA GTGGCACATA TCTNAGAGG AGGAACGAGG CAGCGTGGTG  
 AAGCG

SEQ ID NO:296: (Length of Sequence = 315 Nucleotides)

CGAATACAGG TAGTGCCAG CTGGTTGGG TGGCCAGGA AAATNCTGCT GTGTCAAATA CTGCTGGCCA GGATGAAGCC  
 ACAGCTAAGG CTGTGTGGA GCCCATTCAG AGCACCAGTC TAATTGGGAC TTAAACCAGG ACATCTGACA GTGAGGTTCC

AGATGTGGAA TCTCGTGAAG ACTTAATTAA AAATCACTAC ATGGCAAGNA TAGTGGAACT TACGTCTCAG TTGCAGCTGG  
CTGACAGTAA GTCAGTGCAT TTTTATGCCG AGTCCGAGC ACTGTCTAAA AGACTNGCCT TGGCTGNAAA GTCTA

SEQ ID NO:297: (Length of Sequence = 244 Nucleotides)

AGTACGGTIN NCGCINAAGC TTGATNATCG RATTGCCAAT CINCATAITTT GTGTTAGAAT CATTGTITTT TGTGTCTTCA  
TGTTTCTATA AGATAGGACC AATATTCTTT ATTTGGCTTT GATTITATTT TGTAACTTAA ATGTATTAAAG GCAATAAATG  
TAATTTTCCA CINAAACTA TCATTATAGA TTGTTTACT ACCTACTGCT CAGCAATTTT TTTTCTATC AAAATCTCTC  
CTGG

SEQ ID NO:298: (Length of Sequence = 152 Nucleotides)

CCTGAACAGG TAATGAGAAA AATTACACA CAAGTGATTT TGAAAACAGA ATGGGTTGCT TACAAATTAC AGGAAATGTT  
ATAACACAAA CCAGAAGAAT TCAATGGAAG GCAATAAGGAAAT GAAAATTATA AAAGTATCAN GA

SEQ ID NO:299: (Length of Sequence = 374 Nucleotides)

CGATGTTTTT AATGTCATCA CACGTGTCTT CAAAATGAGT GGTTGCATCA TATGTGCGGG AAATAAAGAT CTGGCTTTCT  
GTTCCCAAGT CTTTTGGTAC CAGGAGGTCA CTGATGCTAA CAAATTTCTG TTCAATTGGT TCCAAGAGCT CCAAAGCTGG  
TCTGATTTCC TTCTCAGGCT CCTTGGTTTC CACAGTTGTA CTAATATAG CAATGTACTT CCTTGTGCT GCTACATTGT  
GGCAAAAGGA GATCATGCAG ACGTAGATAT CTGACTTTCC ATTGACTTTG GTTCTGTGGA ATAATGATCT GGCAGGAGTT  
GGCATCATTG GTGTTCTTTG ATGGGGGTGG CTGAGGGATG CAAATAACCT CTG

SEQ ID NO:300: (Length of Sequence = 365 Nucleotides)

GGCTCACCAA GCTCAGCAAG TACGTGTACT TCTTCGAGGC CTGCGGGCTG CTGCAGAAGA TGATTGACAT CTCCCTGGAT  
GGCTTCTGCT TGACTCGGT GCAGAAGATC TGCAAGTACC CTCTGCAGCT GGCCGAGCTG CTCAAATACA CGCACCCCCA  
GCACAGGGAC TTCAAGGATG TTGAAGCCGC CTTCATGCC ATGAAGAAGC TGGCCAGCT CATCAACGAG CGGAAGGGTA  
GACTTGAGAA CATCGACAAG ATTGCTCAGT GGCAGAGCTC CATAGAGGAC TGGGAGGGAG AAGGATCTCT TGGTCAGGAG  
CTCAGAACTC ATCTACTCGG GGGGAGCTGA CCTCGGGTTA CACAG

SEQ ID NO:301: (Length of Sequence = 224 Nucleotides)

GGTATTCAAA CAAATAGCCT GAGAATTING GGGGATCTG AAATAGAGTA CTATGCTATG TTGGCTAAAA CTGGTGTCCA  
TCACTACAGT GGCAATANTA TTGAAGTGG CACAGCATGC GGAAATACT ACAGAGTGTG CACACTGGCT ATCATTGATC  
CAGGTGACTC TGACATCATT AGAAGCATGC CAGANCAGAC TGGTGAAAAG TAAACCTTTT CACG

SEQ ID NO:302: (Length of Sequence = 363 Nucleotides)

AGTTTCACTC TTGTTGCCCA GGCTGGAGTG CAATGGCGTG ATCTCGGCTC ASTGCAATCK GCACCTCCG GKTTCAGCG  
ATTCTCCTGC CTCAGCCTCC CAAGTAGTTG GGATTACAGG CATGCGCCAC CATGCCCGGC CAATTTTKTA TTTTTCGTAC  
ACACAGGGTT TCTCCATGTT GGTACGGCTG GTCTCAAAT CCCAACCTCG GTGATCCGTC CACCTCGGCC TCTCAAAGTG  
CTGGGATTAT AGGCATGAGC CACTGTGTCC GGCCAGCTCA ACAAATTTTA ATGCTTCTTT CAAGNCTATT AGAAACCTTT  
AATTGCTTCT TAAGTTTCTC CCCCAACTAT GGAGGAAGCA TAT

SEQ ID NO:303: (Length of Sequence = 253 Nucleotides)

ATGCAGGAAS ATCTACCARG CAAATCGAAA ACAAAAAAG GCAGGGGTG CAATCCATCT CTCTGATAAA ACAGACTTTA  
AACCAACAAR RRTCAAAAGA CACAGAGARG GCCATARCAT AATAGTAAAG CGGATCAATT CAACAAGAAG AGCTAACTAT

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CCTAAATATA TATGCACCCA ATACAGGAGC AACTAGATTG ATAAAGCAAG TCCTGGAGGT GCCTACAGAG GAGGCTTAGG  
CTCCACACA TTA

SEQ ID NO:304: (Length of Sequence = 416 Nucleotides)

TTTTTTTGTAG ATGGAGTACT CGCTCTCTTG CCGGGGCTGG AGTGCACTGG CGCGATCTCG GCTCACCTGC AACCCCTGCC  
TCCCCAGTTC AAGAGGTTCT CTTGCCCTCAG CTTCCCGGGT GGCTGGAAAT GCAGGCACAC ACCACCATGC CCAGCTGCTT  
TCTGTATTT TTATGGGAGA CGTGGTTTCA CCATGTTGTC CAGGCTGGTC TTGAGCTCCT GACCTTAAGT GATCGGCCAG  
CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CGTGCCGAGG CTGTTTTTTA ACTGACTTTG GATTTTACTC  
CCTTCTATG CAAATTTATT TTAGAATCTG TTCCCTAAC TTAGGGGGTT GGGTTAGACA AGTTTCAAGG GAGCCTCAAG  
TGKAAATGTC TTAAGG

SEQ ID NO:305: (Length of Sequence = 223 Nucleotides)

CACACCCAGC TAATTTTGT ATTTTATGTA GAGACGGGT TTCACCATGT TGGCTTGGCT GGTACGAAC TCCTGGCCTT  
GAGTGATCCC CTTGCCCTCAG CTTCCCAAAG TGCTGGGATT ACAGGTGTGA GTACGGTGC CCAGCCAGA TTTTATTGTT  
TTAATTACAA ATTTTACGTT AACTGATTCT GCACATTAT ATTTGCACAC TTGTGCTAGT GAG

SEQ ID NO:306: (Length of Sequence = 169 Nucleotides)

GTTTTGCCAC ATTGGCCAGG CTGGTCTGA ACTCCGACC VGTGAGCCA CTTGCCCTGG CTTCTCAAAG TGCTGGGATT  
ACAGGCGTGA GCACACGCC CGACCCATAG CTCTTTACAA CTGCCCTTGA AAGAAAGCAT CATTTGGCAC TGTAGTATT  
TCTCTTGA

SEQ ID NO:307: (Length of Sequence = 303 Nucleotides)

GATTTGTAC AGAGTATGTC AGGAAGACAA CTCAGATTGC CATTTTAAAT AAAGTTGTAC ATGAACAATA ATTGGAATCA  
TCAGGTAATT TTTTAAACA AAGGTTCTTC ATTTACTGTT ATGATTGGAA AAAAAATTAG AAAATAAAGT AAGTSCCATA  
GGCTAATTAA AAAATAAAAC CTTGGCCGGG CGCGGTGGCT TACGCCTATA ATCCAGCAC TTTGGGAGGC CGAGACGGGC  
AGATCAAGNG GTCAGGAGAT TGAGACCATC CTGGCTAACA CGGTGAAACC CCATCTGTAC TTG

SEQ ID NO:308: (Length of Sequence = 143 Nucleotides)

ATCTAGGAGG CTGAGGTGGG ATCGCCCGAG TACTGGAGGT CAGGGCTGCA GTACGCCATG ATCATGCCAC TACACTCCAK  
CCTGGGTGAC AGAGTGAGAC CCTCTSTCAA AAAACCTCAG TCAATVCAA CATACAGTAT ATT

SEQ ID NO:309: (Length of Sequence = 199 Nucleotides)

CCACCCCTCA TAANCCCCAC TGGGGAGTCT GGGGCTCTT ATTGCCATGT GCCTGGAATN ATNATATGCT CATCACTTTA  
TGAAGAATAA AATTTGINTT TCTGCCCTTA AGTTACATT CGTTCTTCCG CTCAAATCCT GATCTGGTCC ATTAAAGAGT  
GTTCGCAGAC AAAGTTTCTG AAAGATTAGA GAAGAATCC

SEQ ID NO:310: (Length of Sequence = 426 Nucleotides)

TCCTGTACC ACCTCTTCCT GAATACGGAG GAAAGTTCT TTATGGACTG ATCCCTGAGG AATTCCTCCA GTTCTTTTAT  
CCTAAACTG GGTAAACAGG ACCCTATGTA CTGGAACTG GGCTTATCTT GTACGCTTTA TCCAAAGAAA TATATGTGAT  
TAGCGCAGAG ACCTTCACTG CCTTATCAGT ACTAGGTGTA ATGGTCTATG GAATTAAAAA ATATGGTCCC TTTGTGTCAG  
ACTTTGCTGA TAAACTCAAT GAGCAAAAAC TTGCCCAACT AGAAGAGGCG AAGAAGTTCT TCCATCCAAC ACATCCAGAA

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TGCAATTGGA TACGGAGAAG GTCACAACAG GCACITGGTTT CCAGGAAGCG CCATTTACCG TTTTMTATGG GACAAAGGGA  
GTTACATTGG CTATGGCTTT TGGGAG

SEQ ID NO:311: (Length of Sequence = 489 Nucleotides)

TCGACTCGGT CCTGGATGTG GTGAGGAAGG AGTCAGAGAG CTGTGACTGT TTCCAGGGCT TCCAGCTGAC CCACTCTCTG  
GGGGGCGGCA CGGGGTCCGG GATGGGCACC CTGCTCATCA GCAAGATCCG GGAAGAGTAC CCAGACCGCA TCATGAACAC  
CTTCAGCGTC ATGCCCTCAC CCAAGGTGTC AGACACGGTR GTGGAGCCCT ACAACGCCAC CTTMTGGGTC CACCAGCTGG  
TGGAAAACAC AGATGAAACC TACTGCATTG ACAACGAGGC CCGTATGAC ATCTGCTTCC GCACCGTGAA GCTGACCACC  
CCCACCTACG GGGACCTCAA CCACCTGGTG TCGGCCACCA TGAGCGGGGT AACACCTGCT TGGCTTYCC GGGCCAGCTG  
AACGAGACCT GGCAAAGTGG CGGTGACAT GGTGCCCTTC CTGGCTGAAT TTTAATGCC CGGTTGGGC CCTACCAGCC  
GGGGAAGCA

SEQ ID NO:313: (Length of Sequence = 302 Nucleotides)

CTTCTCATGC CAGTCTAATG ATTGTTTTTA GAAAAGGATA TACATTGACC TTCAATGTAA TAAGAAATGC AACACTTTAC  
GGTGCCAAC TGCTAAGATT TATTTCCAAC TTGTGAGACA CAACTATTTT GCCCAATCCA AATCAAAGGG AATCAAGGCT  
GTGAAATCCA CACAGGACAT CAACGCACAC ATAAATGAAA ACTACAGATG TGTGAGAGGC AACCATATAC ACACAAATAA  
TGTAACACT AAATTCCATG AAGTAGCTGT CCAGGGAATA CTTTCCAAT AACCTTCAGC AG

SEQ ID NO:315: (Length of Sequence = 339 Nucleotides)

CGCGTATTT AAATTGTGAA AAATAATGAA TATTAATTG GAGCATAATA TTAAATACA TGAAAAAGC TGGCTGGGAA  
ATGTGGCAT GACITTTCCC AGATGTAGC ACTGCTTCAA CTTTGTAGAG NGCACTCTGA GTGTAGTTT ACTAGACTGA  
CATTACTAAA ATCATTGGTG CTATAGAGGC AGGAGAATAC GGGGAATAAG AAAGCCAGTT GCAAGCCAAC AATCTTAAAA  
CTCTCCTTT TGCCATGGAC TGACGGCATA TTAAATGAGA TCATGCATTT TAAGGNATTA ACAGTGATCA CCACATGTGC  
GTGTCCAAT AAAAGGAAG

SEQ ID NO:316: (Length of Sequence = 430 Nucleotides)

TAAGTGGTG GTGCTGTCT GGATGCTTCC AGTGGGCCCC GACCAGGTCT GGACAATGCC TGGGCCCCGT CCCCCGCCCC  
TCTCTACAC ACACGCAAGA NITCGGAGCT CCATGGGGAA CAGAAGCAAG ATATCCGTAA AATCAAAGTC TAGGGGGTGG  
GAATGAAAAG GGAAAAGTGA GGAACGGGA GCCAAACCCA GGAAGACGCC TCTTTTCTG CACATTCCCT CTCTTTATA  
TACTCAGCTC TTGGCTGTCT CCAGTATGTA CCCACCTGG TCTTCCAAGC TGGGAGCCAC TTTTATAAC ACAATCACAG  
TTTCACAAAC CCCAGGAAG TTCCATGTGG NGAGAGGTTA AGTTTCGNCC TTGTCCGGG AATTATGACA CTCAGAATAT  
CCCCTTGGT GTAAATGGAA GACAACCTTT

SEQ ID NO:317: (Length of Sequence = 317 Nucleotides)

GTTAATGCTT CTNATACCTA ACAAATCCIG GAGGCGAGNC AGCACCAACA CTCAGGTGTC TGGGAAAAGG TGCGTGAGAG  
ATCTGAGGCA TCTCGGGGGC AGGGGAGGGC TGGGAAGGCA GGCTGGCTNG GACCCTCGCA TCTTAACCTA ACCTTGACCC  
TCTTCCATG AGCAGAGTTC CGATGCCCTG GAAGCCTGG AGAGTGGGA GAGATCCCG AAAAGGAGAG CAGTCTCTAC  
CCAAAAACAG AAGAGTGAGG CTTCAGGGT GCAGCAGGGG TGGGAGGTGA TCAAGCAGCG TGGGATTGT AAGCCCC

SEQ ID NO:318: (Length of Sequence = 407 Nucleotides)

CTCGCCCCG ACCTTCCCCG CCTATGCCCC TCGCTGAGAT AGGCCCTTCC CTCTCCGGG AGCCTCCCCG GCCACGGAC  
CCTCAACTTC TCCAGCCGCT CCACCCAGC TTCTGGACC GCCTCTGCA GCGAGGCTC ACATCCAGCA CTGTCCCTTA

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CAGTCGCCAT GCCCTGGCG ACCTCAGTGT CCCACTCTGT AAGGGGACAA TGCAAATCCC TTTCCTCAT AGGGTGCATG  
 TGCCAGTNTT GATAAAGTGC TGGCCACAGG CCCTGCCTTC CCAGGGCTCA CAACACTGTG TCCCTGACAC ACCCGTGGGC  
 TGTAGTGATT CINTTCATGG GGATTGACT ATAACNGCA GTCAGGAATG AATTTACAN CATAGCTCAG TACATACACA  
 CATATCT

SEQ ID NO:319: (Length of Sequence = 382 Nucleotides)

CACTGCACAC CTGCGGTGG GGACAGGACA TGACTAAGCA CAGAGCTTTC TTCTTTTGGAG GCCACGCATG TGGTGCAGAG  
 CGGGACCACC TGCATCCACA CAGCCCGGCG CACCTGCTCC TACTTCTGCT TAGCGTGTGA GCAGCTTGGT GACCAGGGTC  
 TCCACCAGG GGCAGGCCAG GACCGGCTTA CAGCACTTTC TAGGGGTTC CTGGTCCCG GCTGGGACAC ATACAGGGCT  
 TAGTAAAGTT CATAGATGGT AGCTAGGCAG CCCCAGGCC CAGGTGACAC CTNTCCCTG CCTGNCCTGT ACTGNCCTGCC  
 TGCAGCACTC CTGGGAATCT GTACGAAGA CAAGGAGAGA CAGGACTTCA TCTTACCAT CT

SEQ ID NO:320: (Length of Sequence = 368 Nucleotides)

CATCCGGGGC ATGGACAGCC CCGGGGTGN CCGCCCGCNC CCCCCTGCC GCGTCGCGTG CNGTTCACCA GGCAGCACCT  
 GGACAGCTCC AGAGTCGGGG AAGCGCCATG GTTCTGCGC AGAAAGGATG CCGGTGCGG CCGGCAGATC CTGCCAGGAC  
 TAGGGGCCIT CCTTTCCAT CAGGAGCCTG CAAGAGAAAC AAGAAAACAT TAGAGGGGCT TCTGTGTAGG GGGAGGGCAA  
 GTTGAGTCTA TCTTCTCTT GTTAGGTACT AATTAAACAC CTGCTGINTG CCTGGTACTN TGCAGGGTGG GACAGGCATC  
 ATAGCAACTC ACAGTGGTCC CCTCTCTTT GTGCCATAG TCTAGTAG

SEQ ID NO:321: (Length of Sequence = 355 Nucleotides)

GGTGGACTGT GCTGTGAAC TGAGCTGAAC TGGGATCAGG AGAAGGAGAA GTGGGGATTG AGCCCCTCAC CTCACACAC  
 TCTCTCTGT GCCTGAAATT CCTCCATTAA GCAGCATCGC TGTCCTCTGT AAACACCCAC ATTAAGCCAT TATTCATCTT  
 ATGGCTTAG TAGGCGTAG TCCCTCAGAT CCTTTCCTGC TGAAAGCGGA TCCTGATAGA GAGAAGGGAA GAGAGATGGA  
 TGGTCTGGG GACGGCAGGC TGGTCCAAGA GTGGGGAGGA AAGATGTCTC TCGGACTCTN GGGNAAGAAA TATTTTCTGG  
 GGGATATGG AGGCACCANA GGCAAGCTCA AGAGG

SEQ ID NO:322: (Length of Sequence = 225 Nucleotides)

CTCTCACTTC TCACCAGGCA CCCACAAAGC CCCAGGCAG CTCATCTTT CCAATCCANT CCCATTATCC CAATCTCTAC  
 CCCAGGATCC CCCAACTCC TCCACTTCA CCTCTGCCAC AGACCCGCTC GCCCCCAAAC TTCAGCCTNC CCTCATCTGC  
 CCTNACCACC CACAGCCCTT CCTACCTAGC CCTCTCCCGC GAGGGGCGG CGGGCTCCCC ACAIT

SEQ ID NO:323: (Length of Sequence = 250 Nucleotides)

CTCTCGCTCC TGTCCGTGAC CTGTCAGATG CAGGTGACAG CCTGCCCTTC CGTTTTTNTC TTTCAGTCC CGCCTGCCGG  
 ATTGGGTTC AGCCCTGCCC ACACGCCCGG TACATCCCGC CTACACTCAC CGATGTGCC TAGCAACCCG GCTGCCGCC  
 AGCATCCGCA ACCGAGGTCC CCGCGCTCCA GTTCTCTGNN GGGGAGGAG AGGGGTGTG CTCTCCAGC CCCTGCAGC  
 CTGGTGTCTT

SEQ ID NO:324: (Length of Sequence = 338 Nucleotides)

GINTTCTTAT GCGGATAAAA TTCTTAGGT AAGAAAAGTT AGCTCTGAGC AGCCCTCCGC CTGATACTAA TACTTTACCA  
 ATGGAGATT TCTTTTCTT TCTGTTTT GAGACAGGT CTCACTTGT TCCAGGCT GGAGTGCAGT GGTGCCATCA  
 TGGTCACTG CAGCCTCCAT TTCCCTGGCT CAAGCCATCC TCCCACTCA GCCTCCCGAG TAGCTGGGAC TACAAGGTGT

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GCACCACCAC GACTGGCTAA TTTTAAATTT TTNNNTAGAG ACGGGGGTTT CCCTATGTTG CCCAGGCTGG CTGGAATTC  
TGGGCTTCAA GTGATCCT

SEQ ID NO:325: (Length of Sequence = 461 Nucleotides)

ACTCCAGACT CCTCCAGCTG TCATGGATCC TGGGCCAGGG GATCCCGNAC TCACCCAAAG TGGGGCTTTG GGGGGTGGTG  
GGCCGGTTCA GTGGTGGAGC GTCTTTTGT CCAGCTCAGA ACCTGCTGCC GGTCCGGTCC CAGAAAAGTT TCTAGCGGGT  
GTAGTTGCCA AAATTAGGGT CTGTNACTGC TGGGCTGGCG GTGGGCGCCT CATCCAGCC TTGGAAATCC TTGCCTAGTA  
GCGGAAGTT CTAAACAGCA AAGGATACAA GGGCCCTTGA GCGCAAGTAA ATTTCCCTC TTGCAGCAAC AGGTGTCTC  
CAAACCAAGC AGCGTCCAGC TGTGTCGGT GGCTGGAGTT CTGCAGTNGG GTGTGGGGAT TGGGAAGGTG CACAGGCAGC  
CGCTTGAGAC CCAGAGGCAG TTNGGGGGAG AGGCCTTGGG CTCAGAGGCC TTTCTTTGTT T

SEQ ID NO:326: (Length of Sequence = 391 Nucleotides)

GGCCCTCCAG TGTCTGCAG AGAGGCACTC TTGCCAAGTG TCATTGATGA CGCAGCTGAA AACCAGAAAC ATTTCACTTT  
CCAGCCACGA GACTGCAGCA ATCTGCTCTT TGGACTGCAC TTAGGGAAAC CGAGGCCAG ATAAGTACC CCTCAAAAGC  
CCCCAGGACG GCAAATCAA AGGGGCTGAG GTGCTCTGAA CAGCCCCAGC AAATTAAACC ACCTAAGTTT GCGCTACTCC  
CACTGCCCTG AAGCAGCCTG TGGTGGGAGG TGGGGGTGGA TACAGTGTTA CAAAGAGAAA CCTGAGTTGT AGCCATAGAT  
TGCTAATCAG TAACAAATA TCCCTCTAAA CCCAGTCTG CCTTGAACCC ACAGGCTCAG GATGGTAAAT A

SEQ ID NO:327: (Length of Sequence = 438 Nucleotides)

TACTGACTGA CCCTGG GATTCCAGC CGAGACGTTT CTGCTCCATT CCGGCAGGAG CTACCTTCCC GAGCCGCGCT  
TTGCTCAGCT GTAGGAGG TAGAGGGAAA TAAGACAGCC CTTCCTTAGGA TGGTGGAGTG GCTAGAAAAGA AGCAATCCAC  
GCCAAAGGCT TAGCTCAGTT CCTAGACTTA GTAAATGCTC AATAAATGTC TGCCATTGTT ATTATTATTT ATNATGCTTC  
CAGCTGGCCT GGAAGGAGGG TTCTGGAGCC AGAAGGGACC TTGGAGAGAC CTCGGTTAAA TCTCTAGCGC CATCTTTATT  
TTTAGGATGG AGTAACTTGC TCAGGACCTA CATCTAATCAT TGTGGAGGGG ATGCGGTTTT TAAGTAGGAA TTCTTNGACT  
AGACCTCTCA GCAACCTTTT CCTTCCGTG ACAGTGGG

SEQ ID NO:328: (Length of Sequence = 400 Nucleotides)

TTGCCCTCTC GGCCTAGAAG TCTCCATTA TGGTGTGTG TCTGTGGGA CCCACGGGC GCTGCACAGG GAACCATGTG  
GCCGTGAACC TCAAGTCNG NCCAGCAGGG GTCAATTGTC TCAGNCCACC CCTCCCTACC CCCAGTATCC TCTCTCCTTT  
ATAGATCATC CATTAGTGC CAGACACTGC AGAAGGCACA TTGACTAATA TTAAATATTA GCCCAGCTAC CTTGCTGGGC  
TGTCCTTCTT AGAAATGAGG AAGTGGAGGG TTAAGTGGAT TTCTCAAGGT CGTGCAGCTG GTAAATGGCA GAACCAGGAT  
TTGAATCAG GTGTGCATGA CTTCAAAGGA AGACACCACT GAGGCCTCCT CTANTGGGTC TGCNTCCCTA CCGGCCCTGG

SEQ ID NO:329: (Length of Sequence = 227 Nucleotides)

GGCTGGGCTA AACTCCAGAC GCTGGCCACC TTCATAGGGT GGAGATGACA GAACAGGACA GGAGCCATGG GGCTCCCGG  
GCGGGTAGGG GTGGGTATG TTCTTGGCT TGGGGCAGT TACAAGGGTA CAGTGGGGCT TGTGAAGGG CAAAAGTTCT  
GTAAGTNGT CCNACAGGC CAAAGAAACC CCAGAGCCGT CTTTCGACTG ACTACAGCCT GGAAGAG

SEQ ID NO:330: (Length of Sequence = 401 Nucleotides)

TGAAAATATA TCCACTGTC AGAGGGACAA CAAAGGCAGT TAGACTGTCC TGAACGGTCC TGCTCAGGC TGAAATTTT  
GTAGCACTTG ATCAGTTGCA AAGTATCTT CCTTTAATA TCTCATTTTA TCATTGGGTA TCTGAAGAGG AAGTGGAAIT  
GGGGTAAGAA TTTAGGTTCT TGCCATAGCA TTTGGGTGGC CAGGGTAAGC CTCAGGGTGG AGGACCCCTA AAGAAAAC

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TAAGGATTTT AAGGAGAGTC AAACCTCTACA TTCATCCAGG CAAACATCTA CTCCTCCATT GATTAAATGNN TCCACTCATC  
CGTGCAACAC ATTCACTCTT TCATCCATCC ATTCATCCAT CTATCTNCA TCAATCCATC CATGTATCTT TCATTCATCC  
A

SEQ ID NO:331: (Length of Sequence = 322 Nucleotides)

CCCCAAGTTG CCCCGCCTTT GTCTCCAGCG GACTGGAAAG AACCCACCAT TGTGAAGCAC AGAAAATTGC CCGCACTCTT  
ATTGGCTAGG TTCCCGGACT TCGCTCTCG GTTGGTGGTT GGCTTTGCCT GTTACCTGTG TTGCCCACTA CCACTCGCTC  
CGCGAGCCC CAAGGATGGA TCGCTATCCC GTAGCCGGGT GTTCGGGAGC GCTGCGGGCA AAGCAGACCG CCTTGGGCCT  
ATTATGGGTT GAGTGGCTCT GACTCTAGA TCGGCTCTGT CACTTACTAA TGGGCCGTGT TGCCTTCGCG ACTGCAGGTT  
TT

SEQ ID NO:332: (Length of Sequence = 441 Nucleotides)

GGCTCAAGNA ACCTGCACTC TTGCACTCTG GCCTTCTCCC AGGCTGAGCT TTATCATATC ATCAGCAGCA ACCTGGAGAA  
AATGTCTAAC CCAAGGGGTG AAGAAAAGCC ATCTATGTAC TGAACCGGG ACTAGAAGGA AAATAAATGA TCTATATGTT  
GTGTGGATTC CCTTCTGGCG TGTGTCATTC ATCAAAAAG CATTATATGA GTGGCACCTA TGTCCAGCCT GAAGATGAAT  
GTGTGGGAA GGGGTGGTG TCACAAAGAC AAAGATGACT TAGATGCCCA CTGTAATCTT GACTGTGAGA AAGAGGGGAT  
TCAGGCCCTT TCTCATCCAG TAGTCAATGT GCCATCTCCC CTTCCTAGT CACCTCTTAT CTTCACTTAC CTTCTTTCTT  
CTCTGCTTA TCTGTTTTC ATCTAAGGCA AAAAGGGGG G

SEQ ID NO:333: (Length of Sequence = 354 Nucleotides)

AGAAGCGTAG ACCGAGTAGC TTGAGCGCCT CTTCGGTTA CCTTTTCCA GCGCCAGAGG GCCTTAGGGT TGGGGTCTC  
GCTCAGGCAC AGAGNCCCGA CACGAGCGG CGGCTTCCCC GGGATCGAGG GACGCGCACG CCAGAGGAGA CGAAAGGAAC  
CCGGTCTGGA CCAGATCGGA ACCACTGACC ATGCCCCATG CCGGCCCTAG TGAGTNTGGA TTTNGCGGG TTCCGGGGTT  
CCGACGGGA CCTCGGCGAC CCTCACTCA CCGCTTCTC TTTCNCAGG GNCCTAGNAG CCAGAAATGC ACTGAATACG  
TNGTTGAGT TCCTAAGTAA GTCCCCAGGC CCAT

SEQ ID NO:334: (Length of Sequence = 196 Nucleotides)

CTCCCGCTCC GCACCGCCT TTCCGAGCA GGCTACACCT CTCCCTGGCG CATCTTTACT GGAAAGCCGG CAGNGGNG  
GGAGAAGTGA GCNCCGTCTC CGCGCTCCT CGGTCTGTCT GGCTGAGCGC GGGGATGGCT CCGGAGGGAG ACACTCAGGA  
AACCACCTCC GCGCTTCCCC CATCTTTATC CAGCGG

SEQ ID NO:335: (Length of Sequence = 261 Nucleotides)

TCGAGAGCT GTCTGGGGCC AACGTGCTGG CTGAGTACTA CTGGCTCANA CGCGCCTGC TGGGGGCCCC TGGNAATNTA  
AGTCTGCCC CGGGCTGTG CGCCCTCTC CTTGANAGCC CCTTGCNTCC TGGGCACAGG GAAGCCTCCA TAGGCTAGTA  
GCATCAGAT GCCAGGCCA GAGCTTACTG GACTTCCCAA GTTCTATGG GACTAGGGCT GAGGGTACAC ATCCTGCTTT  
TTTCCAGAAT ATAAGTTTTG G

SEQ ID NO:336: (Length of Sequence = 191 Nucleotides)

CGGAAAAGCG CTTCGGCCAC ATCCAGCAGC AGTAGCAGCC GCAAGGNC CGGACTCGAAG GCCCACCNA GNCGGACTAA  
GTGTCCAAG GAGCGCCTT CGGCCTACAA GGAACGNC AAGGCTACC GGGAGGACAA GACCGAGCCT AAGGCCTACA  
GGCGGGGGCG GTCCNTCAGC CCACTGGGAG G

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SEQ ID NO:337: (Length of Sequence = 279 Nucleotides)

CCTTAGGGCT CCTCTGACT CCTTCCAACCT CCCAAGTCTG CAGCCCAGGT AAAGCCAGAG CAGACTNAAG GCAAGTTTTTC  
AGGAAACCAG GNGGCTTGAT CCAGACTCAC AATCTCCCTG CAAAAGTCTT CAGAACACAC CGCACAAACA CACACACGNC  
TCACAAAACCT TCTGAATGTC GCTCTGCTC CACCTTCTCC AGTCACCGAA AGACCTCGGC CTGAATTGGA GCCCGCAGCC  
GTAGCTGTCC CINTCCACCT GINGCCCTCG CGGAGGCTT

SEQ ID NO:338: (Length of Sequence = 339 Nucleotides)

CCACNCGTGG AGGGAGGCAA AGGGGCAGCA AGAGAGAGGG AGGAAGCCOC ACTCTTTTAA AACAAACCAGA TCTCTTGTRA  
ACTGAGAACT CCCTTATCAC CAAGGGGACG GTGCTAGACC ATTATGAGG GWTCCGCTC CATGGGCCAA TCCCCTCCCA  
CCAGGCCAC CTCCAACACT GGAAATAACC TCCCAGCAGG CCCGCTCCA GCACTGGAAA TAATGCTTCA GCGTGAGACT  
GGAAGGGGAC TGATGGAGCC TGGWTGTTK TCCCCGCCA GSTCTMACG TGAACCGTAA TCCCCAATGC TGGAGGCGGG  
GCTTGGTGGG AGGTGACTG

SEQ ID NO:339: (Length of Sequence = 334 Nucleotides)

GGCACCGGC TGCTCTNGT CCAGCTAGCC TCACAGGAG TGGCTCTAA AACNGGCGG CCCACNCCAT TTGGAAGCTG  
TCCCCGGTTT TCCGTGAAGT CTTCCCGCC TGTGGTCTC TGGATGGTCT GGACCAACAG CTGGGGGATG AGGGGAGGCT  
CGGGGGCAG GCGAGGAGCC CCAGCCAGGC GCTGGGGTIN TGGCTGATCG AAGAGCTGCA CCACCCNGTA GCTGGCCAGG  
TGAGTATNGG CGTCCACCAG GTGCAGACAC ACATTCTTTT CCTTNACAGC CTCCTTACCC TGGAGTTTAT AGCCAAACGT  
GAGGTGATC CAAT

SEQ ID NO:340: (Length of Sequence = 450 Nucleotides)

GGCCCCACAA TCCCCTCTG GCTCCGSGGA CGGGCGGGG GGGCGAGCG GCGGAAATA ATTTTNGTT TGGTCTCTC  
TGCCCCAGTC CCTTCGCGC GGGACGCGA GACGGGAGAA GGTGCGGGA GCGGAAGCA GGAGCGGAG CGCCCGGCC  
TGGCAGCAT AGGGCGCGG AGAGGGCAGC AGCAGGATT GAGCACCTAC TGINTGCCCT CACGCTTTAC AAAAGGATTT  
TCGTTGATG TTCATTACAG CCCCTGCCC GGGGTACTGA TGCCCCATTT ACAGAGGGAC AAGCCGATT TCGGAGAGGT  
GAAGTCACTC GCGAAAGTC GCACCGCCAG GGTCTGCGT ACACCCATAA GCAGTGTTC GTTACCCCGG GGAGAGCGCG  
ATGAACCTGA ACCACTTGTT GGCTTGGTTC CTGCTCTGC TCGTTTTTTT

SEQ ID NO:341: (Length of Sequence = 192 Nucleotides)

TTCAAACCTT GCGGCACGG CTGTCCCTC GAGGCCCGC CCCTCCCTT TCCGAGAGC CCACCGCTGG GTCTAAAGC  
CCACCGCTGG GTCTAAAGC CCGCCGGTIN TTATCCAGG ACGGGCTGG GGAAACNGG TCTTCTAG CTCTGGNTT  
ACTTCTGGA GACTTCTTAA AACGAGAGGA GA

SEQ ID NO:342: (Length of Sequence = 229 Nucleotides)

GTGGTAACTT TTTTAAAAA CATAAATACC ATACAATTCA TCCTTTTAAA GTGTGTAAT CAGTGGTTTT TGGTATATTC  
AGTGTGCAC AGTCATCACC ACTAATTCCA GAATATTTT ATCACNCCA CGGCTGTATC TCCATTTCT CTCTCCCKG  
CAGATCCTGG CAACCGCTGA TCTACTTCT GTCTCTTACA GACTTATCTG TTCGGACAT TTCACATAA

SEQ ID NO:343: (Length of Sequence = 229 Nucleotides)

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TGCTCCAGGA AATTGGAGTT CNAGCTGAAG GCCTTGCGC ACTCGNGCA CTCGTAGGGC TTCINGCCCG TNGCGTGGC  
 TOGGTGCTGC ACCAGCGTGG TGCTTCGNCC GAAGACTTGC CGCAGTCCGG GCAGCGGAAG GGCTTCAGGC CGCTGTGTGT  
 CTCTGTGTGG TGGATGAGCT GCGAGTNGC GCGGAAGGCC TTNCCGCACT NCCTGCAAGC GTAGGGCTT

SEQ ID NO:344: (Length of Sequence = 227 Nucleotides)

TCGCAGATC ANATTCACCC TTGCCAGAGG TCAGGSCCCC CGGCCTTGGC GGCGGGCCAG AAGCGTGA CT TGGCCTSC TG  
 GAATGCATGC CCTTAAACAT CTCTAGACTA GGGGCAGTGT CCGCCAACCA TGGAGGCCCT CCATCACCAT CCTGTCAGCA  
 TCACCACNT CCAACCCCCA TGTCACCCC TGGNGATTC ATACCTGTAG TAAGAGAGCA AACCATT

SEQ ID NO:345: (Length of Sequence = 249 Nucleotides)

GGCAATGTT GTCACAGATG TGTGCAGATT TTSCAGAGGA CATAAGTTGG CTGTGAGGWA GAACACAGAG GTTSCCTATT  
 TTTTAGGCAG GAAAGAAAGC CTGCACITTT CTGTGTGTGT GTNCAATAA ATCTGAATAA CACCTTGAAA GGGTTAAAAA  
 GCTGAGCACC AGGTGTTTTT TTTCCACTTT CCAGAGTAAT TTAAGCACAC NSCAAAGTTA TCTCCCTTCC TTCCCCACGA  
 GCCAGCTTA

SEQ ID NO:346: (Length of Sequence = 356 Nucleotides)

ACCTAGTCCC GCAGCGCTG CAGCGCTGG GTTGGGGAA GAGCTGGACG CCGAGCTAGA GGACGAGGCA GAGCTGGACA  
 CAGTGGCGGC GTGAATTGGC CACTNCTTTC GGAGCCCGAN CTCTCCCGCA CTGGAGAGGA CTTCTTCTTG GCTGGCGGGC  
 TCTTGTGTTCC GCTCCCGCTC TGCTGCTGCT GCGCGCATTT NGCGCGGCGG TTCTTGAACC AGACCTGCAG TGGGCGGGAT  
 GGGGAGAGT GGGTCAAAGG GAGCTAGGGG AGCTTNTTGC TCCACCGNCC CGTGGACCCA ACTCCCGGTC CAGAATATCG  
 CAATCCTTTC TCACCGAGGC CTTCGACCTT TCTGT

SEQ ID NO:347: (Length of Sequence = 155 Nucleotides)

GCGCGGTGC GTGGATGCC CAGCTCGCT CCAGACCCG GGGATGCAGA CCGGTTTCA TCAAGCTTGA GGGCTGCTCC  
 GCATAGACCA ACGTCCGGG AAGGCACACA GTGGCCGAGG GCCCGCGCGC TTKGGCTACG GCTGTATATG TATCT

SEQ ID NO:348: (Length of Sequence = 362 Nucleotides)

AATTCGATT TAATGATTG TCTCATTCTG CTCATACATT TCAAGTTTAA ATGCAAGCAT AAAATGTTTA TCAACAAATC  
 TAGAGAGCAC TTGGATTTIN AATTTTCTG TGATCACAGT AAGGAGCATA AAAAGAGTA TCTNCTGTTA CACAAGGCCT  
 GTNCTCTCTT TACATCTCA GACTTAAAT CTGTAGAAGG TAACAGCTTT GTATTAGGA CAGAAGCTTA GTGGTCACAA  
 ACAAAAATA ACACIGAAAT ACAATTCGG NATTANTGAT ACTGTGTGTC TCAAAGGATA CCTGAACAT TACANINACT  
 AATAATTTG GCAATGAGAT TCCNGGTGN TTCAACTTTT TG

SEQ ID NO:349: (Length of Sequence = 342 Nucleotides)

AATTCCTTT TTTTTTTTT TTTTTTTTT TTTTTTTTT TTCAAGTAT CACAATGTT ATGATAGAT ACAAGTATAT  
 AAAATCAGG CATGANCATG ACTTGATAAA TTAAGTAGAC TTAATTTCAA TACTATAATA GNGGGACCA ATTCAAATTC  
 TCACCATTT TTTCACACCC ACAAAAACCA CTTCAGGGC ATTAACGNTC TCTCAAACT GNTCAGTTTT GTGCAAGTAA  
 ACCATGTTT TTTTAAAAAG ACTTGTGCAC TTGCCAGGC TCAAGTTAT TAAATCTAG GCACATAAG NCCATTTACTA  
 GAGGTAGGAA ATACAGGCAA TT

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SEQ ID NO:350: (Length of Sequence = 384 Nucleotides)

GATCTGTGCT AGCTGTGAGG CAGCTCTGGA ACGTGAAGAG CTGTTTGGTT TGAACCGTGA ACAAACCTGT GTTTTGAGTT  
TAGCTGACAT TAAAGAAAAA AGTTCATCAC GTGACTGTTA ATGTAAACCT GGTATTATAA ATAACATTTT AAAACAGGAG  
AAATCTGGTA AGTTGTTAGG NITCTAAAIT CCTTTTAGTC TGTTCACCTGA GATATTAAAT TTCAGTAGAC AGAACCCAAA  
AAGAGATTTT ATTTCTTTCT AATCACITTG GCTTCNTCT NTTTTNTTAA GTAGGTAAAA ACCTTCCTTG GTGGGCACCT  
AAGCAGGATG CAGCCAATTA GTTCATGAAC CCAGCTGCGG ACGTGAAGGC TTAAAATCTA AGGA

SEQ ID NO:351: (Length of Sequence = 305 Nucleotides)

ATCTGACCC TCCCCTACTGC AAGCCAGGG AGCCCGAGCC CAAGATGGCC AGCCTGAAAC TGTGGCCAG GGCTCCTCTT  
GTGGCCATGT ACCCAGGGCT GGCTGGCTG CCATTTCCT CTCCCGGAG ACAGCCGTTT TTCTGCAACC ACACCCCGTG  
CCTAGCCACA ACCCAGGGCT GCAGCTGCTC AGAAGCTCCA GGCATTTTGT TTCTGGTGAC CGCCCTAAT GGGATATCGG  
TGATCACTGG TCCACCCCTC CTGTCAGGC TTTCCTGGG GCTGCTCTTG GAAATGAAGT CTAA

SEQ ID NO:352: (Length of Sequence = 270 Nucleotides)

GAAATTCCC ATGGTCATAT CTAGCCTACA AAGAAGAGAA AATACAGTGA TTCAAGTTT ATTGTATTCC TCTCATTGAT  
ATATTTATCA ACCTTCCAAT TGAAGGAAGT GTCTTCTAGG CCTTTACAAA GAATGTAAAC AGGGTTTAGG TATACAAGTT  
GCATATGATA AATCTGTCT GTTCTATAT AAATCTGTCC ATATTCTCT TCTGAAATGC ATTATTTTGG GGGGAAATTA  
AAATGTGATG CAAAGATCCT TATACTTTGT

SEQ ID NO:353: (Length of Sequence = 195 Nucleotides)

GTGTGATTCC ATTTATATGA AATGNCAGA ACAGGGAAA CCTATTINAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT  
GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TNATTGCTTC ACGGGTGAT GACAGAATGT NCCAGAACGT GACAGAGGTG  
GTGCTACAC AACTTNTGG NTGTACTAAA TGCCG

SEQ ID NO:354: (Length of Sequence = 388 Nucleotides)

GCCAATTTT TTATTTTGT AGAGATGGAG TCTCCAATG TTGCCAGGC TGGTCTTAAA CTCCTAGGCT CAAGGGATCC  
TCCCAGCTGG GCCTCCCAA GTGCTGGGAT GATAGGCATG AACCACCAAT CCCAGCCCAT TTCTTTTTC CCTTTGCACA  
GTACCAGATA TATGGTGGT ACTGCAGAAA TAATTTCCCC CTGCCCTCTA CATTGATCAT TTGATGACCA AATAGTGTCC  
GTCTAGCCAC TTATTTATGA TTTGTACAAA ACATTCCGCT TTCTGAGGTA GACAGTGATA TTCTGAAGCC ATCAGTAAGA  
GTAATTTTTC AGINTTGTG AAAGTGNCA TTCTTTGTGT AAAGGTCAGC CTGTCAAGGA AATAGCAT

SEQ ID NO:355: (Length of Sequence = 288 Nucleotides)

TAAAGTGAAG TATTGGGAAA GGGAACTCT CACTCTGATA GATTGAAIT TNCIATTTCT GCTCTGTGAC AAAACCTGA  
GTGATATGT GATCAGACAT TTACAAGGCC CTGCATTCTA CCTGGAATG GCTATAGTGG TGTGAGCTG CTGTGAGATG  
ATTIACGTCA ATTTGTCACT TTTGAAACT GTTCCAAAT AGTCTGCTGA CAGCCCTCC CCTCATGAAA ACATCTCTCC  
TTTTCCAGTT AAAAAACAG TCAAAAAACA CAAAAAAGG CCACCTCC

SEQ ID NO:356: (Length of Sequence = 401 Nucleotides)

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GGAAATTAGG TTGGTTATTA ACATGTATAG ATGGAAC TGG GGTGAAAAA AAAAGGAAAT GGGAAATGGAG TGGAAAGGGTT  
 GGGTGGGAGA GACACTTCAC AGTATTCTTT TTGTTTTGAC TTGGGAAATG TTACTATTTC ATAAACTTAA AAAAATGCAA  
 AAAAAAATA TCAAACTAG GTAGGAAGGA GAACAAATG AAATATAACC AGAAAGGAAT AANCTAACA CATTTTGAGT  
 GAATCACAAA GCCAAACCAA AAAAGAGCTA ATTTAAGTCA CTTTAAACT TGGTGTITAA CTACCTACAC TCAGTCTAAA  
 AACGGNAAT AAGGGTAAAG AAATAGTGA ACTCTAGTTA GTTGGGTCTT TTCTTTACAG CAGTATGGG ATGGCAACCT  
 G

SEQ ID NO:357: (Length of Sequence = 275 Nucleotides)

CAGACAGTGG ATAATAACA CCTCATTAGG AAACCGATCT CAGAATGANC TCTGGAGTAT GAAAAAGATC ATTTCTTTTT  
 GINCCGTAA CCTAGCATTC CTCTAGGCT TCINCTCCTT TAATGAACC ACAGCTTAGC TCATGTATTC TTMTATTAA  
 ACCCTGCTCT CATGTCCATA AGATTCAGGA ATTTAGGAAA TNAGGCTGGT TTGAAGAGGG TAGAAAGCAA TAAAGGCAGN  
 AAAAAATAAG NCTAAAATCA GGGGAAGATG TATTT

SEQ ID NO:358: (Length of Sequence = 314 Nucleotides)

GTAAGGAAG TATGAAAAC T GAGACTAATA TTATGAAGTC TTTTITTAAT TCITTTATCTT ATTGCCCAT TTTAACCCT  
 TGGTGTITGA AATGAAAAAT AAATAINCTC TTCGCGATAG ATAATATGTC AATAACCAA AGGIGGCCTT AACCAATAAT  
 TGGCCCACT TTAAATTATT ACCCTAAGA TATATAAAT ANCTAATCTA AAATTAAATG CAATTTTGCT ATGACTTAA  
 GTGTCANIA TCCTGTATAA GNGATCCNT TTATGCAGTC ACTTAGGCAT GAAGTTGGCA ATTCATCTAA ACTT

SEQ ID NO:359: (Length of Sequence = 372 Nucleotides)

CAAGAGAGAC ATAGCAGGCA TTGAAACAAT GGAAATGCC ACATAGCAGA AGGGAGTGAG GGGATCCAAA CTACAAGAGC  
 GACAAAATCA ACTGTGGATC CAGAGACGAA AAAATGTTCT GTAGTGCAA GGTAACTCTG TGAGATGAAA AAAAAAGAAC  
 CATTTTGA AAAANGGAAT ATTAGAAATA TTGAAGTAA TATCATAAGT CATCTATTA CAAAGGCATT AACTCCTCC  
 TATCAATAGA ATGTACCAGT TTAAAANITT TTAGTAGGAA TATATCTTTT ATTTTATTAA CAGAAATCAN GGGACAAAGA  
 GGATTGATC CATCCATACT TCCTACTCTT ATGGGTTTG TCAAAATGTA GG

SEQ ID NO:360: (Length of Sequence = 395 Nucleotides)

GCATTCITTT GATACCCACC TAATAAGAC AATCTCTAA ACCAAATAAT AGGCTATGAA ATGTATTGIG AGINCTTATT  
 TCATTCAAGA CAGAGCTTAC CTTAAGTCT CCAGCTGAGA CAGTTGGTIT TATCTTTCTG AAAGCAGITT GTCAAGTGT  
 TTCAAGTAA TCAAAAGATC GGTAATCAA TTCTTAGCG AATTGGATTA GACACTCTCA TTTCAAATGG CAGTTTTATG  
 CTTACTCATT GTCTGAATA ANCTTAAATA CTTATGCTA TCTTCCTGCT CCATTATTTA TGTATCACT GGNCCCTAG  
 TATTCGCTT TAGNNCATAT AAAATCACTT NCAGGTATTT TCCATCACGG ACACAGAGGC AGGCACAAAT TAACC

SEQ ID NO:361: (Length of Sequence = 298 Nucleotides)

ATTTTTTGT GGGGAGAACA TTAAAGACCA TTCAATGTC ATGATGAAAG CTAATGGAG AAGGCTTTTN TNCACAAA  
 ATTINCITTA TTTTINCAAC TTTATTGAGG TTATAATGA TATTAAAAA CTGTACAGAT TTAATGTGTA CAGTCTAATG  
 AGTTGGGACA TATGCTTACA CCCNIGATGC TGTTACCACA GGCAAGGTAA TACACATATC CGTCACCTGC AAGAGTTTCT  
 GIGTTCCCN NIGTTTCTCA TTTTGNITTT TTCAAAAATT TACTTTATAG GGTATAG

SEQ ID NO:362: (Length of Sequence = 437 Nucleotides)

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ATGCTGGAAG TGATTTCTGC AGCTCAGGAT TTTTTTTTAA AGCTACATTG AAAATATAGG TTTATTTTTT GTNCAGGTTT  
 TNCITTTTATA TTTTTTTTNC GCACAAAGGA GGAGGATTTT CCCTTACTC ATATOGAGGC CAGATTTTTTA AAGCCAGCTA  
 AGGCAGCATC AGCTGTGCGG GATTTAAAGC CTATAGCTCA GCTGAAAAAA AAGGTGGGGT GCGTTTCAT GTAATGGGAC  
 ACGATCCCTT TCTTGCTGAA CCACTGGAAA GAGCACAAGG AGCACTTTTC CTCTCCACT GCCCGCCGGA GTTCTCGCT  
 CAGCTGAGGG GAGTGTCTCT TGGGCGGGGA TGGGATGATC ACTTTGTGTG GCTTNTCGCT GATGTCCTG GAGGCTGCCA  
 AGAAGTTGAG GTGTAATACG CATCAATGTC CGTGGCG

SEQ ID NO:363: (Length of Sequence = 449 Nucleotides)

TGATTTGAAG TAAGCTTTCC ATGCTTCACT TAGGGTGGGA AATTTTAAAT ATCAGAGCTT TCTTGTAG CAGCATATAG  
 TTATGCAATT TATTTAAATC TGCAGTGCCA ATCTTTTTT GATGGGTGTG CTTAGACCAC ACATTTAAGA TAATTATTAA  
 TATGTTAGAA CCGAATATAT TTINATGATT AGTTTTTATG TGTCAATTTG ACTGAATTAA GAGATGCCCA GACAGGTGGT  
 TAAACATTA TTNCTGGGTA TGTTTGTGAG GATGTTTCCA GAAAAGGCTA GCATTTGANT CAGCAGACTG AGTAAAGAAG  
 ATAAAGATAA TACTTGTCTAT GTGTACAGGC ATCATCCAAT CTGCTCAGGA CCCCAATAGA ACAAAGGT GGAGGGAGAG  
 TGAATTATGT CTACCCCTT GAGCTGGGA CAGCCATCTT TTCATGCC

SEQ ID NO:364: (Length of Sequence = 282 Nucleotides)

GACTGTGTAA ATACACTTAA TTTTCCATTT TNCCTGCTG GCGACATGT GAACAGGCAG TGTGCAAAAT GGTGGCGGGC  
 AGTGTAGGGG GCGTGTGAG AGCCCGTGG GTGCTGCCC CCGTCCCGAG GCTTGTAACT ACTGAAAAGT GGGCAGCTAG  
 GAAGCGGGGA CCGAGCAGGG GTCCCAACC AGGAAGCGCC AGGNAGATTN CTGTAAACG TACTCTACTG GAGGCTCCGG  
 GAGCACCGAG NCGGCGAGTC CCCAGGTCA TGAGGCCCGG GG

SEQ ID NO:365: (Length of Sequence = 349 Nucleotides)

TTCAAGCAAT TCTCTGCTT CAGCTCCCA AGTAGCTGGG APTTCAGCAC CTGCCACCAC GCCCAGCTGA TTTTGTATT  
 TTNAGTCAAG ATGAGATTTT TGCCATGTTG GCGGGCTGG TCTGAACTC CTGACCTCAA ATGATCCGCC TGCTCAGCC  
 TCCTAAAGTG CTGGGATTAT AGGCATGAGC CACACANCT GGNCTTTTN TTCTGTTCT AACTGTTCC TTTTATTCC  
 CTATGGAGCA TCTACTGAGC CCCAGCCGAG AGTAGAAACA AACCTGCTGG CTGCTCTNAA GGCCTTATA GTCCAGTTA  
 GGGGNGACG GGTCACTTAA CCACTTAGT

SEQ ID NO:366: (Length of Sequence = 366 Nucleotides)

ATGCAAAGGA ACAATGGTGT TGSCAAAGTC TTCTTTGAAT ATCAGAGACT GAGTCAATAA AAAAAATAGT AGAAAGGTGG  
 CTTTFACTAT TGACAAAAGC CCGGTCAAA AAAAGTAGTT TAAGTCTTAA GNTGAATAT GCATTAAAGT ATGCAGGTAG  
 CAAAGATGTA ATAAATTCC TTAATAAAG AAATTAAAGT TTTATTTAGA ATCAATTTTA CCNGTCATG TAATTGACCC  
 NICTGAGNAT TACAATAAGC AAGAGGAAAT TAAGGTGTTT TGCAAGAGCT GTATTATAT TACNGTTTT TAAAAACCAT  
 TTTCTGAATT ATCGTAATTA AAGCTCTCCC AACTCGTTTA AGTCAG

SEQ ID NO:367: (Length of Sequence = 391 Nucleotides)

GCAAAAACAA ACAACAAC CTTTAAGTAC AGTAGTCCA AACACACTG CTAAAGTTAT GAAATAATTG TGGATCATTT  
 CAAGTAAAAA TTATTAAAG AGCAATAATT AACCACAAGG GGGCATATAT ATATAINCNC CTTAGATTCC AGCAGAAAGA  
 CTAGTTTTAA GTAGTAACAT GCACGTGAA GTATTCTACA TTTTCAGTCA CTAAACTTT CCTCTCTCAG ATGGCTACAA  
 CTTTTAATA TTGAGGINT ATTTTATATC TAAGTAAAG GATTCCAGAA TACTCTGCC CTGCAAAACA GTAGTGTTTT

AGAAGNCTCT NGGAAGTGT GCTGTTTACC CTTTAGCAAA GNGTACAAG AGCTATTAGT TGTAATAATA C

SEQ ID NO:368: (Length of Sequence = 370 Nucleotides)

ATTTCCCTTC TGCACGCGT TCTCTGCTC CCCATTACA TGGTTTACTT CATTTCCTC TTCATCCATT GGATTCACAT  
GTGTTCTAGG CCAATATTCC AGGNGTGCTT GGAGTAAAAG TCCTCTAAA TTCAATTITG GNTCTGACCC ATCAGGGCTG  
CTGAAACCAG CATCTTTTGC AGAAACCCAG GCAGCAAAAC AATCACTTTC ATCCAAAGTA ATAGTTAACA TCCCTGTTTT  
TAAGTCTACT GAGAACCAAT TTGGCACATA CACCATTTTA AATCTTTTNC TAATTTTCATC TTCAAATCC ACTTTGCCCA  
GATCTTCAAC TTTACATGGC TTCAATACAT CCAATATGN CACATTATTA

SEQ ID NO:369: (Length of Sequence = 315 Nucleotides)

GACAGGTATT CTTTAGAAGT TTTTGTGTTA CTTATGTTTT NCTCTTTTAC ATCTCCTTGT GAATTTCTGT CCCATTTTGA  
AGTCTCTCCT TGTCTCGAC CAAGATCCCC TTGATGTCT GTAGCCAAAG ACTGAGAAAA AGAGTTATTC TGAATGATG  
AGAGGTGAT AAGTCTGGTA AGAACTGTT GGACATCTC CAAGCAGCAC TGCATTGCAG TCTTTTGGGC TGCTTCTCTA  
CTCGGGTGT CTGTCCCTG AGTGACTACG GAAGGGTCT GGATGATGT TTCTTCAGAT CCCACAGTGG ATGCT

SEQ ID NO:370: (Length of Sequence = 442 Nucleotides)

AACACTTTTA CACTGCTGGC CTAATTGTGA GATATCTCA AGAAGATTAT GAGTCATCT CACTACCGGA ATCTGTTTCT  
CTATTTTNTT TACCAATGGG TGCACCATG AATGTTGGCC ATCAAATAGC AAATACCTC TGCTGTATTC TCTACTTNT  
GTTTTAACTG GAGCCTCAGC TGAAAAGGTT TATGGTGTG CTATTCAGTT TTATGAACCA TACTCTGAGG AGAATCTCAC  
AGAAAAGCAG AGACTTCTTT TGGGTTTAA ATCAGCAGAT GGGAGTCTG ATAGTTCCAA AACAAATCAT ACTAACAAAT  
GCATCTGTCT TCTTTCTCAC TGGGCTTTT TTGATGGCA TTCAGGAAGT TTCGTACTT TNCGTATCG TTAATTCAT  
CTCTGGGCT CATGTCTTC CAATGAGGA GGATAATCC CA

SEQ ID NO:371: (Length of Sequence = 441 Nucleotides)

GACAAAGTCA CTCAGGTCT ATTTACCAT ACCCAAAGT AAAGGCCCAA ACTCCACCGG GGCCAAGTNT TTCGTGNTCA  
AAGTCACAT GTCCCCAGA GAAGTCTAAA GACTCACTAG TTCAAAGTTC CCTTGGTCC CTCTCTCTCT GTGCAGGAGT  
AAAATCTAGC ACACCACCAG GCGAGAGCTA TTTTGGTGT TCATCTCTGC AACTGAAAGG ACAATCTCAA ACTTCACCAG  
ACCACAGATC TGATACTTCA AGTCCAGAAG TGAGACAGAG TCATTCAGAA TCACCATCTC TGCAGAGCAA ATCTCAAACA  
TCACCTAAGG GAGGTGGTTC CAGGCTTCA TCCTCAGTCA CTTAGCTTGG CATCCAGATC TCCANTAAGG NCAAGATAGA  
GGTGAGTCT CAGCGAGTCC TATGTTGAAA TCTTGAATT T

SEQ ID NO:372: (Length of Sequence = 362 Nucleotides)

GAGGTATGT TGTACTGGG AGGTGAAGG GAACACAAAT TCAGTTATAA GTCCTTTTTG AATACTAAGA GGGGAATAAT  
TAGGGAAGCT AAGAGGGGAA TAATTAGGAG AAGAAAAAA AACITCAAAC AATTTTCCCT GTACATGAT TTTACTTGCA  
TTTATAAAT GATTTTTTTT TCTAAGCACT CTTTGATAA TGATTAAGTG TGGGGTTACA TTATTINAGG GTCGTCTAAT  
ATTTAAGGTG ACTTAAAAAC CTCACACAG TTAATCCGA ACTGTGAAAA TTTCTCATCT TATCATCCCT CTGTTACTAT  
CAATTTTCC CACGGTACAG ATTCTTTTAT AATTACTTCA TT

SEQ ID NO:373: (Length of Sequence = 306 Nucleotides)

ATTTCTTGTG CGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTTTTGC TGTGGAGTGT AGTTTCTTTG TAAATCTGG  
ATATTAGTTT CTGTGTAGAT GAATAGTTTG TGAATATGTT CTCCCATTC AAGGTTGCC TCTTCATCT GTTGATTTGT  
TCCNITGATG TGCAAAAAC TTTNACTTAA ATATAGTTCT ATTTGTTTAA TTCGTTTTT CTACCCATG CTTCTGAGAT

CTTAGCCATA AAATGTTTGC CTAGAACAAT GCCCTGGAGT GTTTCCTCTC AGTTTCTTC TGGTAG

SEQ ID NO:374: (Length of Sequence = 278 Nucleotides)

GGGTTTGGT TGAGTTTCT ACCTCATTAT CCAAGATATT TNCITTCAG CCAGCAGAAA GAAAAAGGAG AAGAGCTGCC  
ACCCTTTGTA TCCAGGATGA TCTCTINTG AAATCCTTGA TTAAATTATA TCTGCATGAC CCTTTNCCCA ACTAAGGTTA  
TATCCACAGT TACCGGGGGT TAGCACTGGG ACATCCCTTA TTTTANGAAC ATGTCTCAGA AAGTTGCACA AAAAATCTCT  
ACTACATCCC ATTGGCCAAT ACTTCTTACA TGATGACA

SEQ ID NO:375: (Length of Sequence = 321 Nucleotides)

GGTGACAGTA TTTTGTGTG TTTCTGTAGC TCAGCCCCCT CAGAAGGGAC GCCTACAGTT GGCAGCTATG GCTGTACCCC  
TCAGTCATTG CCCAAGTTCC AGCATCCTTC CCATGAACTG CTCAAGGAAA ATGGCTTCAC ACAACACGTC TACCATAAGT  
ATCGTAGGCG CTGCCCTTAAT GGTAAAGAGT GTGGGGGGCA GGAGATGAGC CTCTGGGGCC GTTATTTAGA CCCAGAGTAT  
AAGAGTTGGG GGATACGGGG ATAGGTGACT CTTTTCTCTG ACTTCAGAGC AAAAAAAGA CATGACATTA TAGCAAGAAA  
G

SEQ ID NO:376: (Length of Sequence = 337 Nucleotides)

GGAAAATTTA CAGCATGACT ACATATGTTA GGAAAAAAT ATCTAAAATC AATTAACTAA GCTTCCATCT TAGGAAACTA  
AAAAAGAAG AGCAAATTAA ATCCAAAGTA AGAAGAAGAA AATAAATAAT AAAAATTAGA GCAGAGAGAA ATGAAATTAT  
GAACAGGAAA TCAATTTTAA AAATAATGA AACCAAAAGC TGGTCTTTG AATCAATTAA TAAAATTGAT AAGCCTCTAG  
CCAGACTAAG AAAAAGAGG TAGGGCACAA ATTACTAATA TCATAAGTCA AAGAGGGGAC ACCCTACAG ATCCCATGGA  
TATTAAAGG ATAATAA

SEQ ID NO:377: (Length of Sequence = 455 Nucleotides)

GTTACAATTG AGAAACATA TTTAATAAAT CATTGTCAAT TTINATAATG TTTCAAGCCC ATTCTTTGTT GATAGCCTCC  
ACATTTATAT GGTAAAGTCA TTGTGCTGT GTTCTTACC TATGACATTA TTTNATATC CCTTCATTTG TGGATCTTAA  
GATGTGCAG AAGGTTCAAT CCTGTACCC AATACAGATT CACTTCCTTT AGCTGCCCTT NCTAGCACCA ATATGCITTA  
AAAAAAATG CGCAACAAC AAGCAGTGAC AGCGGCAAT TCCTCGAATG TCCAGATTAA TAACTGTAGC ATGCTAAAGA  
AAGGTGTGTG TAAATAGCTG GAGATGGTAT ATGGTCCAGA GTCCAGCATA AAATTATTTT CTTTCTGAGG CATTCCCTCC  
ATTCCCTTAA CCCGGATACA TGCAATAGGA ATGTAGCAAA ACCCTTCGGG GAACC

SEQ ID NO:378: (Length of Sequence = 349 Nucleotides)

GATGGTCACG GGTGTTTATT ACTGGACATG CTCTATGCTT ACTTGCTTGA AAACGCTCCA TTAGAAAATN AACTCTGAAA  
ACTATATGCC CAATGCTAAT AGTGGGIATT TATTGGTAAC ACTCTTTATC AGGTGCTATG ATTGTTGATG GCTTTATTIN  
CINCTCATA TTINCTATAA TINCTACAAT GAACATGTAT GTATAATCAG ACAAAAAAGC CAAGAAATAT CCATAAGTTT  
TNCITGICAT TCATTCATCC CATAAATACT TGCTGAGCAC CTGCTGTAAAG CCAGGCTCCG AGCCGGCTGC TGGGTGGAGT  
GCGGCACCCC AGGGAACGGT CAGCCCTCG

SEQ ID NO:379: (Length of Sequence = 421 Nucleotides)

ATTTTGAATC ATATTTTACT TATAGGTTTG CTGTATATAC TGATTAACT TCTGAACCTA AAGATTCTCT ATAATTAAAC  
TAGCACAAAT ATAATCTGTC CCTTACCCAC ATGTGAAGAA TGTCTGGTGG GGGAAATCCA ATATTGACCT TCACATTCCA  
CATGGAAAT CTTTGTCCCC AGAGTGCAAT TAGGGTGATT AAAAATAAGC AGCTTTTGTG AGTCTCAAGT TTGTTCCCCA  
AACAAGCAGC ATCAGCAACT GGAAATTTGT CAGACATGCA AATTATCCAG TCCCACCTGA GACTTCAGCC CAGATCTATG

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GATCAAAAAT TTTGGGGGTG ACCCTGGGCA ATATGGGCTT TAATAAGNCC CTAGGATGGG TTCTGATGCA TGCTCCAAAT  
TTGNGGATCA TTGMINCINT G

SEQ ID NO:380: (Length of Sequence = 311 Nucleotides)

ATTTTNAGAT GGAGTCTCAC TCTGTGCCC AGGCTGGAGT GCAGTGCCAT GATCTGGCT CACTGCAACC TCCACCTCCC  
AGGTTCAAGC AATCCTTCTG CCTCAGCTTC CCCAGTAGCT GGGATTACAG GCACCTGGCT AATTTTTTTT TTTTTTTTTT  
TTTTGAGATG AAGTCTTGCT CAGTCGCCAG GNTGGAGTGC AGTGGTGTGA TCCTGACTCA CTGCAGCCTC TGCTTTCCTG  
GTCAAGCGA TCCTCTGCC TCAGCCTCCT GAGTAGCTGG GACTACAGGC ATGCACTACC ACACITAGCT A

SEQ ID NO:381: (Length of Sequence = 442 Nucleotides)

AATCTGTGAA CATATATTTT NATTTATCTT AAATACCTAA GAGTGAAATT NTGGTTCAT ATGTGGGTAT ATATTCAACT  
TTGTAAGAAT CTACAAAAT GATTTTCCAA GTATATGTAT AATGTATGG TCATCAGANC TACATGATAG TTAGAGTTGG  
TTAACATACT CACTGCAATG GATTGACTTT CCTGTGATTC AGCTATCCCA CTCTTAGGCG TATACCCAAG AGAAACTCAT  
AATGTCCCTG TGTGCAGCTT GTATGCTAAT GATTTTAGTA GTATTTTTTG TAATAGCCAN AAGGTGGAAA CANTGAAAA  
TTTCACGGAA ATGATTAATG AATTAACAAA ATATTATATA TCTATATATG ATCCATTAAT CAATGAAANG GANTGAAGTG  
GTATACAAGA AACACCACAG GTTAACCNIT GAAAGTATAT TA

SEQ ID NO:382: (Length of Sequence = 337 Nucleotides)

AACAGACTTT GGAGCCANTC CCATGTGAGT TTGAGTCTCA GAGTGACTCT GGGCAAGTNA CTTAGGCTTT CTGAGACTCA  
CTTCTCTCTT TTATAAATCA GGAAGAATAA TCCATTGCTC ATTGAGTTGT TAATNAGACA TAAATGAGAT AGTGTATCTA  
AAATGTGATT TGTTAAGTCT AATACGNAAT AGATGCCTAT TTGAGTGTIT CINATACTCA GGATGGTTCT TGGGATATAT  
TINCCCATGG AACAAAAAGC AGACTACTCA TGACCACTCG GATTTTATGT TCAGCCACAT TAGGGCTCTT ATGGCCTGAC  
CTGAAGACCT ACCATTT

SEQ ID NO:383: (Length of Sequence = 421 Nucleotides)

GTGAACTGA AGAAGACCAC GACAAACGAT CGCTCAGCCC CTCGCTTTTC TTAGGTTTAC AAGAAATGCG CCGGTGGGGA  
ATGAACINTT TCAITTAATAA AACCTAATTT GTCTTGATCC ATTCCACTCT ATAATAAAAC AAAAGATTTT NTAGGCAACT  
CGGAATATAG CTCPTTGAAG AGTACTCGAC ACCTTTAGAT AAGAATTAAA ACCAACCTAT GTAACTGACA TAATCTTGAT  
CINTTAATTT GTAAATATG ACANITTINCT TTCTGCACAT TTTAATCTTA GTTCCCTTTT TGATTTINCT GAAGGTGCCA  
AATTCATTT AACINCITTA CAAGTCTTTG TAAAATTTTA AATGCATAAA GGGGGGTGG GGGCAGGGG ACCNCGGANG  
TAGTTTAATT TTCGAAAGG G

SEQ ID NO:384: (Length of Sequence = 420 Nucleotides)

GGACTCCGTT CCCAAGAATA AGTTTTCCTT GGGCGGAAAG TATGTGGTTC ATCCGAAAAA AAAGAAATCA ATGATTTGIG  
GCAGTCTTTC ATGTGCTTTT GGGCAITINC ATATCTTCCT TGGAGAAATA TCAATTAAGA TCCATTGCGG TATATACATA  
TATTAATAAT ATGGGTCATG TATTATGGCT CATACCTGTA ATCCCAATGC TTTTGGATGT TGAGGCGGGA GNTCACCTG  
AGGTTAGGAG TTGAGACCA GCCTGACCAA CGTGGTGAAC CCTGTCTCTA CTAAAAATAC AAAAGTTAGC CAGGCATGGT  
GGCATGCACC TGTAGTCCCA GCTACCCAGG AGGCTGAGAC AGGAGGAATT GCTTGAACCC ANGAGGCAGA GNTTCCAGT  
GAGCTNAGGA TTGTGCCACT

SEQ ID NO:385: (Length of Sequence = 404 Nucleotides)

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GTGACAAATG TTAAGAAATT GTGTGTCAAG CAAAATACTT TAGAGGCCAA TGGGCCACAT GTTTTAAATA TCAAGAGATT  
 ACACACAAAA TTINTTTTCT AGCTTCTTTT GAAAAATCAG AATTGGGAAG ATGTATTTCAT GAGTGACTGC TGCCCCCTTT  
 GGTGGGACT CGTCCCTTCA GGTTCAATTAC ATGGTCATCA ATAACCATTT CCTTGGTCCC TGCTTTTGTG TTGTCTGGNC  
 TCTAAGCATT TGAATTTTTA GTATTATAAG AAAACTTAAT ACTTINCTAT CAGTCACCAC ATACATGTGT TTCTATCTGT  
 ACTACGNCIT ATTAAAGCN TTTTATCAAT AGCCNCCATT TTGGAGGGGG GGATTTCAC TGGTGCCTNG ACTAGCAAGG  
 AATT

SEQ ID NO:386: (Length of Sequence = 267 Nucleotides)

GTCTGTGGGA CATTTACGTG GTATCTTTAG AGCAAACACA GAGTGGTTC ATAAGCTGCA GTGTTTTGTG ATCGGTGGGA  
 CTGTGGCATG GCGTAGAGGA GTNACAGTGG CAAACTGATG GCCCAGCTCT GACCCCTCCAG GCAAGTGGAC TCCGAGGAGT  
 ACCAGCAGAT CTTCOCACAT GCGTCGGGGA GGGCTCTGGG GAGAGTCAGT GGGCAGGAGA GGGTCAGCTG TGCAGGCTCC  
 AGGGCCAGC CCCGTGCTTT CCCCTCT

SEQ ID NO:387: (Length of Sequence = 384 Nucleotides)

ATTTTAAATG ACAITTTTATT TAGGCCAGGG GACCAGGTAA CATTATTTTT AGGAGGAGAG CAAAAGGTGT TATATTACTG  
 CTTCTAATTA CCTAGAAGGA AAGCATTTCG TACACTGCCA TTATGATTGG CTGCAGCAGT TCAACCTGGC TCTCGGAATC  
 TGCCATTAGC TTGACAGCAT ACAGAGCACC ATATCAGGGT TACTATGGGA AGACTCTATT GTGGCATCAG AAACACAAAA  
 AACACTGGAT ACAGTTAGTT TCTGTTGACA GTTTCAGAAG AAAATCCAC AGATTGGACA GGCTGCTGTC TGAAGGGTT  
 GTCACACAC ACAGCATGCC CTGAACCTG GGAATGAAGT TACCCCTATC TGTGGTGATC AGGA

SEQ ID NO:388: (Length of Sequence = 345 Nucleotides)

CTAAGATCAA ATGCAGGCAA AAGTGGTGAA TTTTACCACC TGTTGTAG TCTGGGTTTA TAACTTTACC GTAAATCACC  
 TAGAACACAG GCTAGCCGAA TCGGGGTGTC TGGTATGGCA ATATCCCGAG AGCTAACCTG GGGCTGGGGC AATGTTCTGT  
 GGCTGCTGCA CTTCCTCTA ACAGGCCAGT TTAAACGTC CAGCTCTCAG GGCCACATTC TCCAGGACAC AGCAGGGAGC  
 TCACAGTAGC TCAAGACCGG GCCCAGCCTC CATCCCGAGC CTGGAGCTG TCAGTGCTCC CAAAGGCTGA AAGAATTGGG  
 TCTTGCTGA GTGACAGCC CCCTT

SEQ ID NO:389: (Length of Sequence = 156 Nucleotides)

TAACCTGCCC CAGCAGTGCA TGCAGGAGA CTTCCTGGTG CATGAGGTGA CCAATCTGCC GGTGACAGAA GNACTGATTG  
 AGCGGGAGAA TGCAGCCCG CTCAAGAAGT GCGGGGAAAC GCGGGGGNG CTGCAGTATC GGCCCTCAG GCGACT

SEQ ID NO:390: (Length of Sequence = 364 Nucleotides)

GAGTCTCGCT CTGTACCCA GGCTGGAGTG CAATGGCATG ATCTCGGCTC ACTGCAACCT CCGCTCCCG GTTCAAGTG  
 ATTCTCTGCT CTCAGCCTCC CGAGTAGCTG AGATTACAGG CACGTGCCAC CACGCTGGC TAAITTTGTA TTTTCAGTAG  
 AGATGAGGTT TTGCCATGTT GGCCAGGCTG GGCTCAAACCT CTGTACCTCA GATGACCCG CTGCCTCAGC CTCCCAAAGT  
 TCTGGGATTA CAGGCATGAG CCACTGCACC CAGCCCAACA CTGGGATTCT TTTATCCGCT GGCTGGCTCT TCCGAGTTG  
 AATTGTGTGA CTCTTCCCC TATCTGAGGC CCAGTTTTTC TTCA

SEQ ID NO:391: (Length of Sequence = 325 Nucleotides)

GAGTGTCCAG ATGATGGCAG TGATGGCCCA TCTGGAGCGG CTGCTGTAAG GACACTGGCT GCAGCAGGGG AGGCACAGCC  
 AGGCCTGGC ACTAGGCAGA GCTGGTGTGG GAGCCAGSAG CAGATGAGAG CCCCCTTTC TACCAAGTTG GCAGTGACAGA  
 AGCCCGCACT CCCGGTGCT GATGCCAGT TCAGCTCCAG ACCCTGGCAT CCTGGGCTN TCAGGGGCC AGGAAGCCCC

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CCACCCCTGC AGGNTTCAAA GGGCCTGCTT CCCACTCCTT GGCCTTTCCC TCCTCCTGGG AACCATTCTG GGGCAGAGCA  
AAGCT

SEQ ID NO:392: (Length of Sequence = 371 Nucleotides)

ACATCCACAC AAGTACAAGA ATACAGAAGC TTCTCTAGTC AGGATGCACT AAGCACCTAA TGAGTAAACA AACTTCAGCA  
TATCCTCATT GTTCTCATGG TATTAAITIG AAGATACTTA CCTCGAACT AAATCTGGTT TTAGAAGAGC TGCTTGTGT  
TCAGCTCCAA CTGGTTGGGA TACAGGCTGT AAACAGTACA GACATAAAAC TTGCTATGAT AACAGTAAAA TTCAAGCTAA  
ATATACAATT TGTIACIATT CAGAAAACAC GATAGITTTG GTTACCTTGC AAACCTGGTA GGAATATCTA TGTIATTGAA  
TGTCGTATC AATCCTATTA TTAACATTAT TACCAAAGGT AAATAAAATT T

SEQ ID NO:393: (Length of Sequence = 404 Nucleotides)

CCITTTAGTA GCTTCTCTGA GGTAAGACCA CTTCTTTTGG ACCATCTAGC GCANTCINTC TTTACATCAA CCATTTATTT  
CAAGTGTAGT GTGCTTCAGA GTCTGAAAGA GCTATTCGAG AATGGGCTGT TGTGGCTTTC TATGGACATT CACATGAAAC  
CTGTTACAAA CAGTCTCTTA GAGACAACIT TGGGTGGATC CATGAACCTCT GTGTCTAAAC TGATCCACTA TGTAGGGTGG  
CTATCCACTA CTGCAATGCG CTGGGAGAGC AACAACTCT TCTTGCTGCA CTTTATTTTG GATTTCTATG AGAAGGTGTG  
TGACATATAT ATAAATNATA ACCTTCCATT AGTGGGTATT GTTCTCTCT GGGGATCCTT CTATCTGCA CTCTCAGCC  
TGGG

SEQ ID NO:394: (Length of Sequence = 416 Nucleotides)

GCCACACACT GGAGAGGGAG AGCTAGAGAG TGAGACAGCA GGGGAGCTGA GGGTGAATGG CTGCTGTTAG AAGCCCTGGA  
GACAGCCTGA GGTACAGAGC CAGCCCCACT CCTGGCTGTG TGATCTTGAG CAGGGCTGTT AACTTCACTA GGACTTGGTT  
TOGGTTTCTC ATAGAGAATA GGTACAGTGT GAATTAAATA TATATAGCTT GAATAAAGTG CCCAGCTTGT GGGTAGCTGC  
TGCCATCATC ATCACCATCA CCATCATCAC CATCAACATC ATCATCATCA TCATCATCAT CATCATCATC ATCATCATCA  
TCTCAGGCAC AGGGGCTTTA AGGACAACAT GCCAGTTTA AGGANGAACA CAACTCTCTT CATTTATAGC GNCCTCCAT  
CAGTGAGTAG ACGCTT

SEQ ID NO:395: (Length of Sequence = 315 Nucleotides)

AGAGATCAAA TGTCTTAAAC ATTATGGAAT AGGAGTGTAT GACTGACTAA CATCCAGTAA TCATTAGGGA AAACAAACAT  
GAGTGAGGNC AACTGAAATA ATTATGATAC AATTAAAGGT GGTAGGTTAC ATTTGTATAG TTCTTTAAAA TATGCATTAT  
TCCACATGAT CAGAAATATA AAANGANCTA GACAGATACT GGTAGAGAGA CAATTAAATT AAATTTGTAA CATATGCTT  
GGNCAAGCA TTCAAGTTGA GTGCTTAATG TGTATCGGTG ACTGCACGTG GCAAATAAAT TTGGGGTAG TAAGA

SEQ ID NO:396: (Length of Sequence = 409 Nucleotides)

CTCCAGTTCT CACGTTAGGG TGCTTTCTTC CCCGGCAGAG TTTTTOGAGC TCATGAAGGT GGACTGCCTG GAAAGTACTC  
TAGAAAAGTC ACTCCAAGCA AAGTTTCCCT CAAATCTCAA GGTCTCCATT CTCTTAGACT TCACGCGGGG CTCACGAGGC  
CGGAAGAACT CCCGCACAAT GCTGCTCCCA CTCTTGCGGA GGTTCOCAGA GCAGGTCCGA GTCTCCCTCT TTCACAGGCC  
GCACCTCCGT GGGCTGCTTC GGCTCCTCAT CCTGAGCGC TTCAACGAGA CCATCGGCCT CCAGCACATT AAGGTGTACC  
TCTTCGACAA CAGCGTNATC TTGAGCGGTG CAAACCTGAG TGACTCTTAC TTNACCAAC CGTCAGACCG NTACGTGTTT  
CTGCAAGGA

SEQ ID NO:397: (Length of Sequence = 414 Nucleotides)

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ACAAGCTGTG TGACCATAGG CAAGTTTGAC CTTTCTGAGC TGCCATTTTC TCATGGTAAA AGAGAGATAC TAGAGGAACC  
TGCTTCACAG GATTGTCATG GAGAATAGAG GAGATGATAC AAGTGAAGCA CTAGGCAGCA CCATACTTGG AACTAAGGGA  
AAGCCCGCAG TCAATGTTCA GTATTGTTAC ACTTGCCAGA TTGTGAAAGA GCGCAGGCAA CCCTTGAGTT GAGCTCAACG  
CTGGAGCCAA GATCAATGAC AGAAGGATTT TGTTTTGAAA CAGCAACTAA TGACCAGAGA GAGGAAATGG GTCATGAAGC  
TCCATGGTGC CTTTCATGAA AATGAAATGT AAGGGCGTGA TTCAGGAAAA AGGGACCACG ATCAATACCA GCAGACTCTT  
CCCTATGCAC TGGG

SEQ ID NO:398: (Length of Sequence = 400 Nucleotides)

CATCAAGCTG GGAATGCCCT AAAGTGGGGG CGTGAGGAAG AGAAGGGGTG ATACCTAGAG GCTGGGGTAT CTCTGTCCCA  
AGGAGACAAA CTATAACAAG ACCCAGCAAC TGAAGGGTGA ACACCTAGCA CAGACGTATA CCTCCAGGNT CCTAGCTGCA  
TTTCTAATTC TGCTTCATCT ATGCTTGAGC ACTACTTGTT GTTAAATATA CTTAATATCA CTCTTAGCTA ATTTCTCTTA  
TGTAGATTTT TATTTATTTT TGAGGGCAAC CCAACTTCCA GGCTCTTGGG AGGAAATAGA CTGCAGCCCC TAAGTGTGAT  
CAATACTTAA TTATAACAAT AATCACTAAT AATAACTTGT GCTGCTTCAT TGTAACATAA ATGTACACTT TTACATTTTT

SEQ ID NO:399: (Length of Sequence = 324 Nucleotides)

AAATATTAC AATTTTACAC CTTCAGGAAG GCTCCAAAT ATAACACTG TACCTCTCCC TAGAGAAAAA AAAATTATTC  
TTCTCTTCAA AAACAGGAAT ACATTCATTT TTTCTCAGTG TGTAATCAA GTAATTATAC AAATAACAT CTGAAACATT  
TTCTTTTAA ATATATTAT ATAATATATA TTNTAACAG CTTTACAAAT AAAGGCAACG GTCCCTTTCT AATTTTCATG  
CCTCTCAACA GAAGGGTACA TGATGCTCCC TGAATTCAG GGTATTTTT TNCCTCTAT GGTACTTTGT ATTTCACTTT  
ACTT

SEQ ID NO:400: (Length of Sequence = 388 Nucleotides)

ATTAAATCTG AGTTTTGTTT GAGCATCTTT CAACATGTAC CATATTTATG ACAATTCTCT TCCATAGGAT CTATCTGTC  
TGCAACAAGT AITGATCTTA CAGTAAATTT TTTCACAAT TCATTAGATT CTATGCTCTT TTTCTGCTA GGAATTTTTG  
TGCAAGTAGC TATCTCTTGC CCTAGATTAT TCTCCTTGTT TAGCTGCTGA TTCTTAACT GGCTCTAGA TTTCCAGATT  
TCTTCCGGTA CAGACTTCT CTTTGCAAGT NCTTCCATCT CTAATCTTTG AGATTAACT TCTTTTGAAA TGTCCTGCTG  
CTCTACTCTT GTATGCTTG GNCACGTT CAAGCTTCCC ATCTAGCAAA ACCAGGGTTT CTAATATT

SEQ ID NO:401: (Length of Sequence = 339 Nucleotides)

GTTTATTGCT CAAAAACAAG AATTCAGAAG CAAAGGTGGA GAGACTGTGG GTTGGGGAGA TGGCAGGAAG GGGGCAAGGC  
CTTGTCACAG CTCTCCCTTT TGCTCTCTT CTGACCTCC TGGCCGAGT CAGGCCTAGG GCCAGGGCAT CTGGGAGGGG  
GGCACCTTCG TGGCAAGGG AACAGTAGAG CTATCGGGGG CAGTCCCTGA GGGGTGCCCT GGGCAGGAGG GGCTGCAAGA  
TTTNCAGGGA GGCAGAGTTC CCTCCGAGA ATCCAAAGC CGGTAGGGGG GGGGGCAAGG CCCCTCGTTT GGCAACTNAG  
AAGAGGCGGC TTTTGGGCG

SEQ ID NO:402: (Length of Sequence = 400 Nucleotides)

TGTCCAGTGT ATGAGGAGCT CCCAGCGAGA AATGAAAGT TCTATGTTTA TGAAATATAA AAGGAAGCAT TGCAAGCTGT  
CAAGATGATC AAAGGGTCCC GATTTAAAGC TTTTCTTACC AGAGAAGACG CTGAGAAATT TGCTAGAGGA ATTTGTGATT  
ATTTCCCTTC TCCAAGCAAA ACGTCCITAC CACTGTCTCC TATGAAACA GCTCCACTCT TTAGCAATGA CAGGTGAAA  
GATGTTTTGT GCTTGTGGA ATCAGAAACA GTCAACAAG AGCGAGCGAA CAGTTACAAA AATCCCCGCA CGCAGGACCT  
CACCGCCAAG CTTTCGGAAA AGCTGNGAG GAAAGGGAGG AGGAGGACAN CTTTCTGAC CTTATCTGGG AGCAACCCCC

SEQ ID NO:403: (Length of Sequence = 416 Nucleotides)

AGTTGACTGC TCTGATATGG AGAGACCTGT TAGTCTTGTA TATAGTCCCC AGCCGGAAAA AGCATCTCTT GAAGGTTAGG  
GCATTTTGTG AGGAGAGCTC TAGGGCTATA TCAGTCTGGA GGTATGATCT CTGATAAAGA TCATAATTCT CATCTCAGTA  
ATCTTCTTTA GAACAAAACA TTCTTCATTG TAAGCTTCTC ATTAACTGAA GGCCACCTGA TCTGAGATTT TGGCTCTTAG  
AATACTCTTT NCTGTGTCTC AATCTCATA TGGCTTACCT CTGAAATATA GAATATATTT CCTTGTGTAG CCTGGTAGAG  
TTGGGTTTTG TTTTGTTTTT CAAACAGTAA CTTTATTTTG ATTGTAAAAC TTCCAGATTT CTGAGATGCC GCCTTACCAG  
TCCTAAGGTT GATTTT

SEQ ID NO:404: (Length of Sequence = 368 Nucleotides)

CCTCTNACTC ATGTGATGA GTAGGGCGGA GGGCTTCACT GCCTCANTTT CCCCACCTTT GGACCTTAAA TCCTCTCCTG  
ATGCTCTCA CCCCAGCCAG GAAGGAGAGC TAAGACCAAG AGGGATTTAA CAGATGCAGG ACACACAGCC TTGTCTCAG  
ACCCCCAAG TCTGAGAGAA GCAAAACACT CACCTTGAGA GCCCTGGGAC TTGGAGGTGA GGTGCAGAAC CCAGGCTGGG  
TGTGTCTGA GGGTGGTGG GGGTGGTGG TGTGGGTGG CTGGCTGGG AATACTTTTC TTAAGCTAAG GCTGGGGCTT  
AGGGGAGGCG CAGAGGAAGG GTAAATAGTT TGCTGGGGG GGTGCTGG

SEQ ID NO:405: (Length of Sequence = 395 Nucleotides)

GACAGGTCTT CACTCTTACC ACAAGCTCA AGTCAGCTTG GCCTCTCAAG TGGAGAGATA ATCGTTCTAT AGCAAGAAGT  
ACAAAGATTG TCTGCAGACA AAACCAGCTA GCCAAGGTTC CACAACATGT GTACACGTAT AAGTCTGNTG GATCAGAAGA  
AATATGTACC CGGGAATCAG ATGTAGCCAG CCCACATACT AACAAACATC AAAGCAAGCC TAGTCAGATT GAGTCCCAT  
TGAACAATCT TTATAAAGGT TTCTTCATGT TATTTACAAT TCAAAGTAAA TTTACTTTAT AAGCAGCTAG GGGAAITCTT  
TATTTAGTAA TGTCTAACA TAAAAGTTTC ACATAACTGG CTTCTGTCCA AACCATGGAT ACTTGAGCTT TGTTG

SEQ ID NO:406: (Length of Sequence = 358 Nucleotides)

GATACCTTAA TCTAAATTTT ATCTTAATTT TTATTTTAT TTCTATGTCT AAATTTTAT CTAAAATTTT TNCCTAGCTCT  
TTATTACACC AAGACAGCTT CACATTTTAA TTTATATATT GTACATCTCA TGTAAAGNAT TACCGTATAT AAGCTAGTGT  
CATAACTTAA GTAGCCACAT TCATTTCAGTA TGTTTTATGT TTCTCTCTG ACTGGATCTC TGATACATTC TTTCTGTCTC  
TAGCTGCTTT TATGCAAAAG GGCATTATAT GTTTGTCAAT CAACCAGGCT TCTGTGACTG TTTAGAAGGA ATTATGTAAA  
TATATAATCC NGTGGCTGT TTCACTTTGG CCATGTTT

SEQ ID NO:407: (Length of Sequence = 294 Nucleotides)

CTGTGTATAT TTAGTATCTT TNATTAAGAA GACTGGTGA TATTGCTCT CAGCTAATTT ATAGAAAGGA TGATCATCAA  
TGCTCTAGT TTTCTCTAA GTGGCTGTG TGTGCAGGTA CATATAAAAA TNCACTATA CAAATAGCTG GACAGTTGAG  
TCTCAACTAT GAAAATCTTT TCTGGGATCA AGATCTAAGA AGTTGGTGTG TGTATGAGTG CAACCCATCA TTCTATCCCC  
TAAAATCTG GGGTTTCTCA GCCCAAACAT TNCACIAGT AAAGTCAAGT TTCA

SEQ ID NO:408: (Length of Sequence = 367 Nucleotides)

GGCAAGGAAA GAGAGCTTTA AATTGAAAGG TTAATTTCTT AAGAGGAACC TGGGCTGAAT GACTGCAGTG TTATACCCCTC  
CAATCTTTGC AGGTGGGCAT GGAACACTGC TTGTATCACT CTGTGCACGG TATAAATCCA TATATCCACA AAAACACACA  
TCCATCCATC AACATATACA TGGTTTGGGA TGAGCAGGTC AATAGTTTGG AGAGGGAGTT TGTCCTTTT TTTTCTCAT  
TATACTCTTA AATTGTGTG AGTTATCAAA CAAACAAACA GANAAATGT TTGAAAAAC CTTCATACG CCTTTTCTTA  
TCAAGTGCTT TAAATATAG NCTAAATACA CACAGGCTTG AGGCAGA

SEQ ID NO:409: (Length of Sequence = 233 Nucleotides)

AAGAGACAGG GNCATCTCT GTCAACCTGG CTGGACTGCA ATGGTGTGAT CACAACCTAC TGCAGCCTTG AACTCCTGGA  
CTCAAGCANT CCTNCCACCC CAGCCTCCTG AGCAGTTAGG ACTACAGATG GGTGCCACCA TGCCAGCTA ATTTCTAAAT  
TTTTTTTAGA GACAGGGTCT TGCTATATTA CCCAGGCTGG TCTCAAACCTC CCTGGGCTCA AGTGATCCTC CTT

SEQ ID NO:410: (Length of Sequence = 295 Nucleotides)

GACAGGGGGT GGGGAATCTT ACTCCATGGT ATCTTCAGAG CTAGGATAAT GCTCCTTATG CAATCCCACT GCATATGACC  
ATGGCAGTAG AACAACTTCA ATTACTACAC TGGATGCGTT AAGTGTGCTT TCCTAGCAGA AAGCACCAGG GTGGAGTCAA  
CAGTTCACAT GCTAATACIT GGAAGTATTT CTAGAAGGGG GTGCTCAATA GAGGCGAGAC ATGATGCAAG NNCITCATACT  
TAGAAAGGTG TCCTGTGTGT GCATGCACAG CTGGATGGGG GCACACAGGA GCAAG

SEQ ID NO:411: (Length of Sequence = 304 Nucleotides)

AATAAAAGA CCATTAACIT AAAGTGGTGT TAAATGCTTT GTAAAGCTGA GATCTAAATG GGGACAAGGC AGGTGGAGGG  
GAGGCCAGTG TACATGTAAA TGCCACAGC CCAGCATTTG GTTCCCTCC CAAGNCCCA GCACCAACCT CTGAGCCCAA  
GACCTTGCCT GAAAACAAGC AGATACCGAT TGNITCATCC TATTTATGGA CATGTAGGTC TAGTTGCATT TTCACTNGGG  
GGAGGGGGGA AGGTGAATTA TGGTAACTTT TAATGATCTA TTCAGGCAGT AGAGCTCTTA AGGG

SEQ ID NO:412: (Length of Sequence = 250 Nucleotides)

CAGGTGCGCA CTATCAGGCC CGGATAATTT TTTTGTGTTT TAGTAGAGAC GGGGTTTCAA CATGCTGCTC AGGCTGGTCT  
CAACTACCGA CCTCGTGATC CGTCCACCGC GGCTCCCAA AGTGCTGGGA TCACAGGCGT GAGCACCNCT CCTGNCACA  
GGTNGAGACC CTCTCTATAT AAGAAAGAGA AAAATGTCTC TNANTCACA GAGAATGCTA ACAACGGGGG AAAGCACAGA  
CACAAACCTG

SEQ ID NO:413: (Length of Sequence = 337 Nucleotides)

GTACTGGGAG AAGGGAAGGC AATCACAAC AACTGCCCTC AGGAAGAACT CAGTCCCTGA CTGTAGTGTCT TCTTCGGGG  
AAACCAATGCC ACCNCTCC ATCCCCAGA CGGGCGAGGG GCTGCACCCT TAAAGCAGGC CATTGGGCTT TCCGGGCTCC  
AGGGCCAGCC CACCCGNTC CCGCTGGTGG ATCTTCTGTT GCTGCAGGAG GTGCTGCTTC TGGACAAAGC TCTTNTCACA  
CTCAGTGCAG CTGTAGGGCC GNTACCCGT NTGGATGCGC TGTNCGNA CCAAGTCAGA TGGGTGACTG AAGCTCTTGC  
CACAAAGTAAC CACAGAT

SEQ ID NO:414: (Length of Sequence = 304 Nucleotides)

GGTTTAAGAA CTGCGTTTGT GNGCCCAATC TTTGGTGAAA AATATTTTTG GGTCACTTTT GAAAAAATC CTTTCAAGG  
CAGACAGCAT TTTAATGCTT TGCTGTGTTT TCCCTGTTTG TCAGCTCTGN CACCAGCCTG AAAGATTAA AAATNCAAAT  
TAATGGAGGN TTATTTGTCC TTTACTCAGG TCACATTTCT GGGTTTAAAT GAAGNGACAG ATGCTGCTCA TATACAGGAT  
TTAGCTGCAG TTTCTTTGGA ACTTCCAGAT ATTCTGAAT CACTCCACTT CTGCAGTCTA AATG

SEQ ID NO:415: (Length of Sequence = 315 Nucleotides)

CGTTGTGGAG TGGGTGTCTT TGGATAGAAG GAGTGAGGAA CTGGGGGAGG AAGGCCTGGG GGATCCCTTG GGGGGCTAC  
TTCTGGGCC CGGNATGGAC ACCTGGNAGC TGCTGCGNTT GTTGGGGTCC TGGCAGGGGT GTGGTGTGGC CCTCACCCT  
CTGNTCACCT GCTCCTTCTT NACAGTGCTT GGAGAAGTTC CCTGTNATCC AGCCTTTTCA AAGTTCGGNA GCTTNTGCCC  
CATCCATCCT GTCACGTGGG GCTAGGAGGG GNCAAGCCGA AGAGCCACCC ANGNACANT TCCTGTGCTT GCCTT

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SEQ ID NO:416: (Length of Sequence = 343 Nucleotides)

GTATTTCAAG TGTTTTATTT GCITTCITGT GTGTCAAAT TGGGGTCTCC TAGAGCCCAG CCCAGGCAG AATCCGGCAT  
ATCCTTCTCC GCCTGGGGG CCGGGACAC AGGAGTTTCA GAAAAGGCAC TGGCAAAAGT NCTAGGGCGG GGGTCAGGGA  
GAAGCCACAC TGAGCCTGGA GGGACCGGC CCTCCTCGG CGGCAGAAAA CACAGTCACC TTINGCAGGG AAGGGTTTTT  
NCCTAGAAAG AAATTTAAGA CAAGATAAAA ACCTGAGATG TTAGAGGAGC CCCAGAACC AAGCCGGTGC TNCCTTGGG  
AANCAGAGAG TGAACCTCGC TTT

SEQ ID NO:417: (Length of Sequence = 202 Nucleotides)

TATTTCTCTG TGAAGAGGG GAAAATAAAA GGAATAAAT AAAAACGGCA CAGTTGACAC ACAAAAAA ACCAATGATG  
GGGAGGACCG GAGGTGGAGA AGTAAATGGG GGAGGGGNTC CCATTACAGC AGCAGGATCC AGTNACCCGG GATGCTCACA  
TCITNCCCTN ACGTGGGCGG TGTAGCCCTT TCCTCCCAAG GT

SEQ ID NO:418: (Length of Sequence = 299 Nucleotides)

CACCAATTGG CTGCAGAGCT GTCTTCAGGA TCATAGGCCA CTGCCAGAGT CTGGAGAGA GGGAGAGATG GAGAGGAAG  
GAGTGAGCTT CGGTGGTCTG ATTTCTGGCT CAACGACGCA GGAACCTCAG GTTCAAAAGC AGCTGACAAG AGCCAGAGA  
CCGTCTTCTT GCGTCCCGC AGAGCCTTCT GGTGGCCCGA CAGCCAGGCA NGGAGGGAAG GCCCTGAAAT CCCGTTTTTN  
TGGCAAGATT NGTTCCAAG AGGAGATAAT GGCTCAATTT TGCTTCCCA AGTTGATCA

SEQ ID NO:419: (Length of Sequence = 223 Nucleotides)

ATTGTGGGA AGGTAACATT TTCCATGGT TTINATTTIN CCCAAAAGTA TTTATGTATT GATTTATTTG GNTCTGACTC  
AGGOGACGTA CTGTAAGACG ATATTACTTT AATCATCTTC ACATCAGTAT TTATGGAATA GCCACAGGTG CCTCATCCTT  
TAGTAGGAGT TAATTATACA TTINCTGGCC GAGTAAACAT NTCCGAATGG TATGTATGTA TTT

SEQ ID NO:420: (Length of Sequence = 406 Nucleotides)

TTTAAATATT AAGTTAAGTA TATAACTTGC CCTATGCCAT ATTGCTTTAA TCAGGGGACT GAGCATCACA TTTAGATTGG  
ATGAGTTTGG GAAAAGTTCT CAAACATCCA GACCCATGGA CCTAAGAAT TACTGCAGAA ATCTCCTTCA ATATAGTCAT  
AGGGAGCATT AATGCTTTTG TGGTACTAAA CATATTTTGG AGCTTAGATA CAAATCCTTC TTGTCTGAA CTGATAGGGT  
AGGAATTGTT TAGGTGCTTC AAATCCAGAT CTTTCAGGGG TTGCCACCTA AACTCATCTT TATGAGTAAC TCTAGATAAT  
AATACACTTT GGTATCTTCC AAAGTGCTTA TCTAGGCATG GAAAAGTTCA GTAATTATCA TGAGGNCCTG TTTTAGGTT  
AGGTCC

SEQ ID NO:421: (Length of Sequence = 281 Nucleotides)

ATCCAGATTG CTGACTTGTA CACAATGGAC CATATGINCT GTCCAAAATA CACCTACATT AACTGTGTG GAACANGAAC  
CTGGGCTTTG CAAAAAGAA TTTATGATTA AAATGTAAAC CCCCCAAA AAAAATGAAG CTTAGAATTA AAGGTAGCCT  
TTTACCCAGA TTGTACCA GNTGTAAAA TTCTAATATG GGTCAATTAAC TGTTACAAA TAATTCATAT TTGNCCTAT  
GGTTTAAGGG CTCCAGATTG AAAAGTGCT CTGAACTTCT G

SEQ ID NO:422: (Length of Sequence = 220 Nucleotides)

TTTGTATTTT TAATAGAGAC GGGGTTTTC CATGTGGCC AGGCTGGTTT TGAACCTCG ACTTCAGGTG ATCTGCCTGC  
CTCGGTCTCC CAAAGTGCTG GGATTACAGG CTTAGCACT GTNACTGTCT GCCTGGCTGG CTGGCTGGCT GGCTTCTTT  
CTTTCINTTT TCINICTCTC TCCTCTCTC TCTTCTTTC TTTCTTCTT CTTCTCTCC

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SEQ ID NO:423: (Length of Sequence = 391 Nucleotides)

CTGTCTCTTA TCTGGGCAAG CTTTAGACAT ACTAGCTTGG TTGGAACTG ATATTAAAAG CCTAAAACAT GTAACCTTNC  
 TTATCAGGTT ACTATCATGG GGAACATAAG ATTCCTGGTT TTTTGTATGT NCCATAACTA TACTTTAGTA AGCCCTGATA  
 TACGGTGTTA ATTTTCCINC AGTGAAGGAA ACATGAAGAT ATATTATGT GCACACATAC ATATATATGT ATATATAACG  
 TATATTCAA CATGCACTCA GAGGAAGTTA GGGAGAGAAG TTTCTAGCTA AACATGATCT TGTGAAATTC TTCCATATGT  
 GGAAAAGTCG TCAGTTCATC TGACATAGAG CAATACCATA CATATATACA CACAGGTCG TATGGTATAC A

SEQ ID NO:424: (Length of Sequence = 379 Nucleotides)

TGGGGAGCCT GAGGCATGAG AATCGCTTGA GOCCTGGNGG TGGAGGTTGC AGTGAGCTGA GACCCCGTCA CTGAACTCCA  
 GCCTGGGTGA CAGAGCAAGA CTCTGTATCA AAAAAACAAA CAAACANACA AACAAAAAAG CCTATTATTA AACAAATAGGA  
 AATGCTGAAG TCTAGTGCAC CAAGACATAC TGAATTTCAA ACTAAATAAA TTAATAATTAT CATGTACATT CCACTACATG  
 TCAAAACAGG AAAANCCATA GTATTATAGT TGATATGAAA TGANGATTAC ATACANCACT AATACAGAGN AAACATGAAG  
 CTGCTTATAT TTATTTGGGN ATAAGNCAN CAGGGGCCAA TGATTTTCAC TGCAGATGT

SEQ ID NO:425: (Length of Sequence = 448 Nucleotides)

TCCACAGGGC GGCTGGGGT CTGGAGATGG GCGCTGGGCC CACGGGACGC AGATGGGGCC ACGCTCTGCC CGTGGCTGGC  
 CCACGTTCTT GGTCTGCAGT GCTGCTCTCT CCCAGCACC CCTGGGGCAC AGAGGGCAGG GTCACAGCTG GGAAGAGGTG  
 GGGGGTAGAA ACCAAGGCTG GCAGAAGTNT AGCCGGGCTC CCTGATAAAT GCTGGAGGAC CCCAGGGCAC CTGCACCTAC  
 TGTACCTCT CTGAGAGCAT TTGTATGATC TCATGTCTCA GCTCTNNAG GCTGGAGGTC CCAGAAAACC AAGGTATGGG  
 TAAGATTGAG TCTCTGGTG AGTACCCAGT TNCCTGGCTC TAGATGGGCG CTTTTTCCCT GTGTGTCTC AAATGATTGG  
 ATGAGGCCAG GTGTCTCTCT TGGAGTCTT TCTGTAAGG CAACATGAT

SEQ ID NO:426: (Length of Sequence = 417 Nucleotides)

GCCTGGNICA TCGCTGTCTT TTCTCTCTG TCAGAGTCAG TGACACTGAC ATTAAAGTCA TCGAATATCA ACCAGGTCTT  
 GAGGACCTTG GTGTGTTTCC TCCTCTCTTA GTCTCCAGAC CCCAGCCTGT TCATTCTGA GCTTCTCTG GCACCCCTTC  
 CTGGGGCCA AGCCAAGTAA GAAATCAGCA GGGCCAAGGT GGTGCTTGGG AGGCCGGGC AGTGCCAGGG GCAGTCTCA  
 TACCATCTC CCACCTGGCT CCCTCTGCTC TGCTCTTAGC CGCCACACAT ATCTCAGCTG TCGAATCCGA TTAGGGNITC  
 TGNCCAGTGA GCCAGACAAG GAGGCCACTN GGCAGGGGAG AGAGAGACAA GGACGCCAAG CAGGGATTGG CAGAAGGAAG  
 GTGGAGACAT GGCTCAA

SEQ ID NO:427: (Length of Sequence = 317 Nucleotides)

AACCTGTCT CTACTAAAAA TACAAAAAAT TAGCTGGGCG TGGTGGTGGG CGCCTGTAGT CCCAGCTACT CGGGAGGCTG  
 AGGCAGGAGA ATGGTGTGAA CCCAGGAGGC GGANTTGAG TGAGCCGAGA TAGTCCCTCT GCACTCCAGC CTGGGTGACA  
 GAGCGAGACT CCGTCTCAAA AAAAAGGGCT GATAATGATA AACAGTGAGC ACTCCGGTCC TTTTCTTAC GTTTCTCTT  
 TTTCTCTCT CTCCACCCCA CAAGTTTGC TTTTAAACA AGGTGCTCT GCTGATGGA AATTCACATG CTAGTCT

SEQ ID NO:428: (Length of Sequence = 296 Nucleotides)

GTAATTACAG TATTTCACG TAGAGACGGG TTTCTCCATG TTGGTCAGGC TGGTCTCGAA CTCTGACCT CGGGTGATCC  
 GCCTGCTCG GGTCCCAAA GTACTGGGAT TACAGGTATG AGCCACCGTG CCAGCCGGT TTTTPTTTT TTTTGTAT  
 AGCAATGGAA GAATGGCTC GTACACACGN TAGAGTGAA AGTCCAGGC ACCAAGNIT CCCACCTAG AAGCAAGCTC  
 AGGCTTTCT CTTCATCTT CCAGGAGAG CACTGAGAGA TGATGGGGG TTGCA

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SEQ ID NO:429: (Length of Sequence = 422 Nucleotides)

GAGGGTGGG GACAGGAGAC AGTGGGGTGG GAAATCCAAA TCTCAACTGC TTTGTACTG TCTCCTGCTC CCGAGTGCCC  
 CANAGCCCAT GCAGACCCTC TGCTGTCTAT GATATCCTGT TCAGCCCTCA ACTTCTCTA CCATCCCTGC AACTGGGGTT  
 CACTGTGAGC CAAACCAGTT TGCTTCTTGT TTTCTAAAAG CAGGCAGCCC TTCAGGACTG TMTCAATTCA GGCATTTCCC  
 ACCTCTNITC TCCACTCATA TCCCTTCCCA AACTGCCTTT CCTCATTTCT CCGTCTCCAG GGAGAGGGAC TNCAGGCTAC  
 CACAGNCAA AATGGTGGTC TTCAGTCTA CGTAAGNCAA NCTGTGTGAG TGTGTAAAGG CTNAGGGTTG CTCACAAGGG  
 GACACACAGA NGTGGATGCC AG

SEQ ID NO:430: (Length of Sequence = 332 Nucleotides)

CGGATCAGC ACCCGGGACA GCGCCACGC CCACTGCAG GGGNTGGGT CCGGGCGGG CTNGCGCTC GGGTCTCCC  
 GGNAGTNTCC CGTCCAGCG TCGAGCAGGG TGCTTGANTN TMTCTGCAGA AAAGACTCTA GGACCCCGCC ACCATGTTCC  
 CCGAGCCCCC AACCCCGGG CCTCCATGCG CCGANACGCC TCCGACTCC AGTCGCATCA GCCACGGCCC AGTCCCCCCC  
 TGGGCCCTGG NCACCATCGT GCTGGTCTNA GGCCTCTINA TCTTCAGCTG CTGTTTCTGT CTCTACCGGA AGAGCTGTGG  
 GAGGCGGACA GG

SEQ ID NO:431: (Length of Sequence = 413 Nucleotides)

TGTCATTATT TAAGATGGGG GACATCCAAG CACCTGGAAC AAAAAGGACA CTAAGAATGG GAGAAGAATA CACAAAGGGA  
 GGTAGTACAG GGCCAATAAC AGATTTTGG AATTTTCAA ATTCTCTTT GAAGTAATTT TACAGTCAGT AAATGGAAGT  
 GGAAAAGAGG AATAGAAGAG CATTTCATTG ATTTTTTTT TCTCTGTAC TTACACATCT CATGACCTCA TGTTCOCAGA  
 ACTTAACACT TAGTGGGTT CTAGTAGATA TTTTGGGTG AAAAGATGTT TGCTGTTTG CATTGTGTTG TGTGTTGTTG  
 GCTAGCCTGT GAATCTAGCA TTGTACGTGA GAAAGTGCAT TTCAGATTGA AAGCAACTGG GTTTTGGAAG TGAACCTCAA  
 TAACATATCC CAG

SEQ ID NO:432: (Length of Sequence = 292 Nucleotides)

TTCACCGTGT TAGCCAGGAC GGTCCTGATC TCCTGACCTT GTGATCTGCC CACCTCGGCC TCCCAAAGTG CTGGTATTAC  
 AGGCGTGAGC ACCGCGCCCG GCCACCATTC ACTAATTTTC AAGAAATGTT GAAGTGTCT ATATTNCTT CCGACTCCAT  
 AGCTCCAACA TTGTTGGCTA TTATGAATTT GGCTATTAG TGATGCCAAC AATATTAAAT GAAAAAAGA TATAGCAGTA  
 TAGTTGAAGG AGGAAGCTGA AAGAAAACGG TCCATCNGTG AGGAAAAGGC CC

SEQ ID NO:433: (Length of Sequence = 335 Nucleotides)

TTTTTTCTC AGCAGAGGAT TTTATTGGTG GTCACCTGTG GCACAGGTTA GAGGAGCCGA AGTGCTGINT TTGTGGTGGG  
 GGGGGGACCA CAAACCCCGG CCTGCCCTC TTGCTTACAT AGGCTTCCCG CCTAGAAGCG CACATGAAC ATGCGCTAC  
 GGATCCGGTT GTAGTCTGGG AGCTGCTCAA TGGGGCCATA TCCAGCCACT GCTGGGGCAC TGGTCATAGA TGTACTTINGA  
 GCAGATCTCA CGTACCACAC TGGCATCCAC CTCGCAAAT CCGGCTTTCC CATTCAGCCA GGGGGGATG CCGGNGGGCC  
 ATAGGTCAGG AGGCT

SEQ ID NO:434: (Length of Sequence = 390 Nucleotides)

GTGCTGACT GCTGATTGGA GATGACGTT ACCCATCTC TAGACAGTCT GTGCTTTTCC TGTCTTTGGA GCTTCCAGTT  
 CCACCCCAT CAGTTTTTTT CTGACCACTC CATCTTGCT TATTTCTCTC TCTTTCCCTT TGACTGGAAG AGTACTCATC  
 TTTTCTAACA TCTTTTATA AACTGTTTTG ATTTCACTTA TATTGATTTT NAACGTATAA TGTGCTGGTG TTCTATTTC  
 TCAGTTAGAT CAGAAGGCC CTAAAGACAG GGCTCCATTG GTGTAAACT GCCATCTCA AGGTCTGGGA CTTGATTTCN

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CTTTTINAC CTNCACAACA AGGCACTCCT CTTGCACCCA GTGGGAATTT CAGTGCCTGT GGGTCAAAGT

SEQ ID NO:435: (Length of Sequence = 427 Nucleotides)

TCACTAAACA GTAGATTTAT TTTATGTAGA TTTGTTTTTC TATAAAATA TATTTATGTG TTCACAGGAA AAAAGTTGAG  
TTGGTATGTG GGGGTGACTT TCAGATACAT AATTAGTTAA AGGTTTGCTT ATGAAGTTAG AAGGCATCTT AGCTTTTATC  
ATTTTCAAAT TTTCTTCAT AAAAAAGAAC ACCCTGTGAC AAAGATAAGG TAACTGAGAT TATTATTAGC ACTTTAGAGT  
TGAGAGAGTT TGAATAAAAA AGGTTAAGCA ACCTGCCTAA TGTTTATGTA CAAATCAGT GCTGGAGCCA GGAAGAGAAT  
TTGGATTTTC CCAACCCCTG GACAGTCTC TAGGGACTCA TGCCACCAA CCATCTTGA GACTATATAC AATCAATTAC  
ATTAAATGA TATTGACAGT AGACTAG

SEQ ID NO:436: (Length of Sequence = 249 Nucleotides)

TCAAATAACC AGGAGGGGGA CAGAAGATGA TGGCAAGGCA GACTGGGCAG TGTTTNTAG ACACAGAACA AAGAATCAGA  
ATTTGAAAAA AGANGAAAAA CAAATCTNCG CAGCTGCAAC TTAAAGTAT CACCTTTATA GATGGCAGGG ATTTCCATTA  
TGCAAATGGA ATCTAAGATT TCAATGTGNA ATCTTAGAAT GCAGTTTTAC CACTTGCAGT CINGTATTTG TGGTGGCCAT  
GTGGTGAGT

SEQ ID NO:437: (Length of Sequence = 404 Nucleotides)

GTCATTCACC CTATCCCTC TTTCACCTC ACAGAACITT CACACTCCAA TGTACTTGCT GTTTGTAGAT GCTCCTATAA  
ACAGAAAGCT CTGGGAGACA GGTTCTTGT TATTCTTGCT CTCTGTCATA TCTCTGGGCC TATCACAAGT ACTCAAAGCA  
TAGAAGTTCA ATAAATATGT GTTCAATGTA AGAAATGATC AGTGATCTC AAGCTGCAGT GGGCTCAGGA TAACCTAGAC  
AGCCTGTTAG CACGGNCCAC TGNNNCCAC CCCCACAGT TCAGGTCTGG TCTGGGNTGG GGCCCAATAA TCTGTATTCC  
TAAAAGTCCC CAAGCAATGC TGGTGTGTT GTCCAGGGA CCATGCTTAA AGAACCACC GGAATAGGAC TGGTGGACAA  
AAGG

SEQ ID NO:438: (Length of Sequence = 337 Nucleotides)

CIGCAACTTA TACCTTCCAT TTACTAAAGT CCCAGTATGT GTCAAAGTAG TTTTCATTCC TCACAGCCAT GTTATGAGCT  
AAATATCACT AACTTTCCCT TTCAAAGGTG AAATAAAGT AGACTCTGA AGATTAACTT GCCCAAGGTC ACCTAGCTCG  
TTAGGAGGCA CAGGTGGGAC TTGAACCCAG TTCTTTCTGA ATTCAAACCC TCCAAAATGT CTGTCACATC AAGCTGCTTC  
AATGAGATGC TAGAAAATCA GGACAGTGAG CAAGCTGGAG ATAANGGAAG ATATGGAGGA ACACGGGAAG TGTGATCCTC  
ACACACATAC CCTGCAG

SEQ ID NO:439: (Length of Sequence = 380 Nucleotides)

CATCGTGTAT GAAGGTAGCC ATTTTGTACA TGTTACCTTG TTAAAAACAA AAGAGCAGCA ACATGTTTAG AGTGGTGTCT  
ATAGATAGAA CACTGCTGTT ATGTTTAAGG AAAATTGGGG CGGGGGCAGA AAAGATCAAT ATGACTAGTT AGAAGACTAT  
TAAGGAGAAC TTTGTACATG AATTATGGAT GTAAGAATTA GAAAAAATA GATGATCATG TTCAGAAATT TAGCTTTTTC  
ACAATTGTAG TGGAAAAGAA AACTCCTAGA GTAATGAATC AATGGTATCC TACAAAAAGA GAGGTGCCAA AAATACCATG  
AAATATTATA TTAAAAAATT CACACGNATA GGTAGTTATA ATATGTAAAG GCCAGACTTC

SEQ ID NO:440: (Length of Sequence = 335 Nucleotides)

CCCTGAGCTT TTATTGACCA GTGGACTGTG ACTTTTGATG TAATTTTATT TTGAGAGAG GGTCTTGCTC TGTCACCCAG  
GCTGGAGTGC AATGGGGTGA TCTGGCTCA CTGCAACCTC CGCTCACGG GCTCCAGTGA TTCTCCTGCC TCAGCCTCCC  
GAGTAGCTGG GACTACAGGT GCACACCACC TTGGCTGGCT AGTTTATGTA ATTTTGTGTA TGTCTGTGGA GACAGGGTTT

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CACCATGTTG CCCAGGCTGG TCTCAAACTC CTGAACTCAG GTGATCTACC GGCCTTCCAA AGTACTGGGA TTACAGGCAT  
GAGCCACCAT AATAA

SEQ ID NO:441: (Length of Sequence = 356 Nucleotides)

ACTAATTTG TTTCTGCTTC AACCTGCATT TCCAGAGGTG CCTGTTGGTC TGTAAATGGT TCTGGCATGT TTATAGGTAT  
TACAAAACCA AGTCTTATTT TGCATTTTAC AGGATTTAAG ATGAATAAAG TGATGTGGTT GTGCTAGGTT AGAGTTGTAC  
AAATTATACT CCCATGCGG ATGGTGGCGT CCCAGGCTTA CAACCTGACC TCTGCCCTCA CGCCCATCGT CACGCGCTCC  
CGGTGCTTCA ACGAGGAGCC CCTGACGCTG GCGGGCTTTC AGCAGGGNCC CGGCCAACCT CAGTGACGTG GTGCAGCTCA  
TCCTTCTGGG TGGGACTCCC AATCCCCTTT CCTTT

SEQ ID NO:442: (Length of Sequence = 371 Nucleotides)

GATGATTTTG TATCTTTTTC TATTTATTGA GATAATCAAA TGATTTTTGT CCTTCGTTCT ATTGATGTGA TGTTTATTGA  
TCATGTTTAT TGATTTGCAT ATGGTGAGCC ATCCTTGTTAT TCTGGTATA AATGCCACCT GATCATGGTA TATNATCTTT  
TINATGTGCT ATTGGATTG GTTGCCAGT ATTTGTGTGA GAATTTTTTC ATCTGTGTCT ATTACGGATA TTGGCCTGTA  
GTTTTTTTTG CTGTGTTCTT CTTTGGTTTT GATATCAGGA TAATGCTAGC TTTGTAGAAT GAGTNAGGGA GGAGTTATCT  
ACTCTTCAAT TTTTGGGAAC AGTTGCAGAA CTGTGTGTG TTTTGAACA G

SEQ ID NO:443: (Length of Sequence = 329 Nucleotides)

TGAATGCCT TTATTTTTTN ATTTCCATC CAGAAACCC AGTGTGATGG TGAAGCAGC ATGAAAACAA CATCTCCCA  
GGCCTGCGAG TAGAGGCGAA GGAACAGAG CTGCCCATGT GCGTGINTCT AAAGACGCCA CCTCAGGTT GATGTACCT  
GTGGGAGACC GGGTCCACCT ACAGACACCA GGTGATGGTC CACCAGGCC CAAGCTCCAG CCTGCTGAGT CCCCAGACA  
CAGGCTCATT AATAGCTTC GTACAAAAC CCAAGGGTGT CCTCCAGCT GGTAAAAAT TGGGCAATTT CTACTTGGAG  
GTCTGCTGT

SEQ ID NO:444: (Length of Sequence = 358 Nucleotides)

TTTTTTTTTA AGTACATAGG TCTTATTTA AACACTGATT TTTTTTTTAA ATATATACAC ACAAACCTTA GTTCAGCAAG  
GCTTCATGAT ATACACCAAT TCCAAAATAA AACATCAAA TGTGCCAGGT GTAGAATGCC AGATTCCCTT TATCATCTGC  
GAGGAAAAGA GAAGCAGGAT GAGGAAGAT GAGGGAAGGC GGGACAGGC TCTGCCAGA NGAGCTGCCG CCTCCTGGCA  
CAGCAAACGC TCCAGGCTG GGCCTGTTT ATATCTGGAG TCGGAGGGAG ACTCCCATCG GCGCTTTTG GACTGAAAGG  
CCCAAGGCTG TCACCAGGTC CCGAAGAGA GGGAGGCA

SEQ ID NO:445: (Length of Sequence = 302 Nucleotides)

TCAGAACGGT GAGAAATAAA TTGCTGTGT TTATAAAGTA ACCTGTTTAT GTTATTTTTT TATAGAAGCC TGATCAGAAT  
AAGACATAT TGGATAGAAT ATTCAGGAAT GTCTTGCCCTC CAATGTGGC CCCCCGTAC TGAGCTCTAA TCTACACTCA  
CCTAAAAAAT TATAAAATCA TAATAAACT GAAAAAGTCA AACTCTCAAT TGCATCCAG CACAAATATC ACAGNTGNTT  
ATTTAAAAA TTATGTCAAG GCCCTAAAA GCTAAATCC NCAGNTCTGC TAATATTTCT CT

SEQ ID NO:446: (Length of Sequence = 367 Nucleotides)

ATATATATAT ATACACACAC ACACATACAT ACATACATAC ATATACATAA CCTGTTTGG GTAAGGCCCTA TTGACAGAAG  
CCGATATCT GGGTGAAGT TAGAAGATGG GCAAGGAATT CTTATCTCAG AGTTTCAACA CTGOGACAAT GTGGAGAGAA  
GTCTCCTGGG AAAATGCAGA TGCCCAATAA CTCCAAAAG AATCAGGGAA GTTGAGTAT TTTTGAAT TACAGTGTCT

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TTACTTCAGT AAAACAAGCC ACAGCAACAT TATGCTCTGC AGAGTCTTCT GTTCACCTTT GGGATGGAAA AGAGCTGCTT  
CTCCTAGGNN GGCAACTAAG GCCCAGGACC AAAACTCCCA TCTCCTA

SEQ ID NO:447: (Length of Sequence = 295 Nucleotides)

CTGCAAACCC TTCAGCATTT AGCTAAAGTT ATTTCAACAT TCAATGCTTG TCTTGCACTG TCCTGGTCAT TTAAAACTG  
GTATCTCTTC AATAGCAAAT AGTATCATAA CAGACCACTA AATTGGGAGG GAAAGTGGTT TCTATTGCAG ATGGATGTAA  
TTAAAATTGG TGTAATCAC AGGTACAGA ATTCTTATCT GGTAAGAATT CTGACTTTTT TTTTAAAGAA GAAAAAATAT  
ATCCAGATCT GTATCCACAT GCTATTTAAA TGCTCAGGNC AAAAAGAAGC CACTA

SEQ ID NO:448: (Length of Sequence = 233 Nucleotides)

CAGAATCAGC CCAATGCCC ATCAATCAAC TGTGCATAAA GAACTGTGA TATATATATA TCATAGAAGT TCAACAGAA  
AAAATACAAA AAACCTAGCA GAGGATTGTA TCCTTTGCCG TTTATTTTGA TGACCATGCC ATCTTCTAAT CCCCAGAAAA  
AAACTGGAAA ACAGAATAAA TATAATTINC TGATTAINCT TATGTACAT AAATGGAATA TATATATATA TAT

SEQ ID NO:449: (Length of Sequence = 341 Nucleotides)

ACTTCCTTCC TCAGGCTCCT GTACCAATCT TCAATTCACT TGGGATGTCC TAGTCTAAAA CATTTATTTT ATTGAAAGG  
AAAAATATCA ATTTCTATCT AAATGGAGT AAGATTCAAT TCAGATGTGT TTTATTACAA AACATAAGTT TGTATTATAT  
CTGTGTTTAA TTGTATCNG GAACATTACA TGTAAGAAC ATTCCATGTA AAGAACCAGG CAACTTGGCC AGGCATGGTG  
GCTCACACCT GNTAACCCCA GCACTTTTGG GAGGGCCAAG GCAGGTGAAT TGGTTGAGAC CAGGNGGTTT AAGACCCAGC  
CTGGGGCAAA TATTGGCGAA A

SEQ ID NO:450: (Length of Sequence = 313 Nucleotides)

TTTTTTTTT GACACAGTTT CCAGTCCCG AAACCTTAG CTAATCTTTA GCATTCCTTC AATGGTGGGA ATGGCAACA  
GATCACCATA GTATTAATAC TCTGTGTAAT TTTATCACTA GAATGGTTAA TTTCCATATC ATAGTAGAGC TGTTGCAGAT  
ATTTTGAAT CCATTTATAC TCACTGCCAC TTCAAGATTA CTGTAGTTGT TAGAACAGCT GCTAGATCTT ATTACTTAAT  
AAATTAATAA AGTGTGAATA TAACTATATA ACCATTTTNA AAATGTTTTT TGGATAACTT TCAATATAAT TGG

SEQ ID NO:451: (Length of Sequence = 351 Nucleotides)

GGGCGGCTC CTGGGCACCC ACCCAGCTCA TTGCGGAGC GGCTCCCTC CTGGGGTTGA GTGTCTGGG CCTGAGTCTG  
CAGCCTCAGC CATCTGTTC CCAACTTGAT CTCCCACTGC TAGTTACAAA CAAATCGCCC GGCTTGTGCA AACCTCTGG  
GCTCAGTCCC CAGTCCCGG GGGCATCATT TCATTCCTC CTAGCCTGTA AGGTTCTCC TGAAAAATCT ATTGTTAGTC  
TAATATGAAT TTCTAATAT GTGACTTAAG GCTTTCTCT TGCTGCTTTT AAAATTTTCT CTTTGTCTT TGACTTTGAC  
AATTGGCTA TAATGTATGT TGGAGAGGAC C

SEQ ID NO:452: (Length of Sequence = 363 Nucleotides)

GACAAGGGAG AATCTTGCT TTACCTATGG ACTGGCTTAA CGCGGTGGC ATCCGAGGAA TGTTTCAAAT GTGTCTGTGT  
TTCTTTTAC ATTCCTTATT GTACCTCAT GTCAATCA CTTTGTAAA TTCCACCTAA CATTTAATTA TTTTAAATTT  
CTCGTCAATG AAGTTATTTT AAGACACTGG AATAAGTGA CTTTGTGTTA TAACAGCATA GGATTATAAA CAACCTAAG  
AGTCAGCAGT GACATTGATG GCACATGCAT ACAATGGAAT ATTCTGTAGC TGTTAAATA ATAANGAAGA TCCTGCTCTG  
TGTATTTGAT ATGGGAAGGC CCCCAGGT CTACAGTTAA GGG

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SEQ ID NO:453: (Length of Sequence = 382 Nucleotides)

ATGAGGGAAA AGATGGTGCC ATTGAAGATA TTATCAGT GCTGAAGACT GTNCCCTTTA CTGCTGCAC CGCCAAGCGT  
GGCTCTCGGT TTTCGCGA ACCGTCTCTC ACTGAGGAAT ACCATTACTA AACTATTACT CTTCCTCACC TGATGCTCTT  
AAAAGATCTT AGAAACCAAC CATACAGACG AGCCGATGCG GTGAGGAGAA CGCTCAGGCG GCGCTTTGAT GATCAGAACT  
TGCGTTCTGT TAATGGTGCC GAAATAACAA TGTGAACCTG AGACTGGCCT GCAATGAATA CAGGGGTGTG CGTGTTCAGG  
AGGTTTCTG TTGCGTCCAC CCATGATGCG GGGCCINCCC ATTTGGGCGA ACTTTTCTG GG

SEQ ID NO:454: (Length of Sequence = 391 Nucleotides)

CGTCTGCCG GTGTGACTGG CTGGAGAAAT AAGTTAGGGA GAATCTAGAT ATGGTTGAAT TGTCAATGCT GCTCAAAAT  
TGTTCTTTG TGACAACAAC AACAACAACA ACAACAACA CAACAACAAC AACAGGTGAA ATTATCTTGA AATACAAAAG  
AAGTCTGTT GGTCTGAGA GTGAAAAAG GAATCTTAA CAGCTTCAGC TTGCACCAAG AGGATTTTTT TTTATCAGCT  
TCCCTTCATA AGAGAGGATG GAGGATTTTG GAAGAGACAG AACCTGGGAG AAATTTCACT GAGCTGCCAC TTAGTGGTTT  
AACCTACTTC CACAGAAGGA ACCTATTATT GTTNTATTG GGAATTCAGT AAATGTGGGC CATGTAAAGG G

SEQ ID NO:455: (Length of Sequence = 282 Nucleotides)

TTGAGTACTC ATTTGAGGAC TGCAGTCATA GATTTAAAGT GTAATCAGTC AACTCAGTGG AATTACTTTC TCCATTATC  
TTAAATTGCT TCAGGACTGT TTCAGCCTAA GCCAGTAGCT GGGTTTAAAC AAATTGAGAG ATTTTNCIAG GAGAGTTTGG  
CACGAGGAGA GAGGGGCAAA GCGGTGTAA GCACTGTTTA TAACAGTGGC CCATGGAATT GATCATGGGT AAAGAGAAAA  
CAAGGACATG CGAGGAGGTG ATAAATAGAN CAAACAAG CA

SEQ ID NO:456: (Length of Sequence = 340 Nucleotides)

CTAATTATG TTGAGATCT TCAATGAAAT TAGTTACTAA TATTINGCTT TATCTTCTC AAAAGATTTA ACATGATAAT  
TCTGACCTAA TCCAAAAAA AAAAATTCAT GGGCCACTGT TTTCATGTA ATATGTAAGA NCTCACCTTG ATGTAAACT  
CCAACCCCTG GCTGAAACAG GTTAATGATC ATTTGNGT ATTTATTCT ATAAATAGT TGAAGTTGGC CAGGCTGGT  
GGGCTCTGCG TGTGCTGCC AGGTTGGAG TTCGGTGGC CAAATCTCG CTTCCTGCA AGCTTCCGCC TCCCCGGGT  
TCACACCAT CTTCCTGCT

SEQ ID NO:457: (Length of Sequence = 338 Nucleotides)

ATGAAAAAGT CTCAGAGAT TATCAGTGG CGGATGACAT TTGCCCTCTG TTGCTATTCT TTGACATTCA TGAGATTG  
CTACAAGTGA CAGCTCGGA ACTGGCTTCT GTTGCATGC CAGCAACAA ATGAAGTAGC CCAGCTCATC CAGGGAGGGC  
GGCTTATCAA ACACGAGATG ACTAAAACG CATCTGATA ACAATGGAAA AGGAAGAACA AGGTCTTGAA GGGACAGCAT  
TGCCAGCTGC TGCTGAGTCA CAGATTTCAT TATAAATAGC CTCCTAAGG AAAATACACT GAATGCTATT TTTTACTNAA  
CCATTCTATT TTTATAGG

SEQ ID NO:458: (Length of Sequence = 370 Nucleotides)

GTTCCTTTC GGAGCTGAAC CAAAGAATGT GCACCCCTT TCTCTAGTGC TGTGGTGTCT GCTTATTTT GTATTGTG  
TTTCATCCA TCTCTGTGA TCACAAGGCA TTCTTAAGGT TTTCTAGCAC GACTTGGGA CATCCAGACT CGTGGGGGGC  
CCACCATGG CTCGGTAAGC CAGCAGCCA GGGCACTGGC ACTACCATGA GGCATGCTAT TAATGTGTC ATACAGCTGT  
TACCCGACG CGCACACAAG CAGCAGGTCA ACTGCCAAG GGGCCCCAT CACGGTCACC AGGCGTGGCC CAGGTGCAA  
AGGAGGAAAA ACAAAATTC TGGTTCCGT GTGGGACAGT AAAGCAGATG

SEQ ID NO:459: (Length of Sequence = 339 Nucleotides)

ATTTTCCTAG AACTGAAATC ATCTACGGTT CTCAGAGCTA AACTTCCAAA GCTACAGTCA GCAATTTTTC ATCAGAGCCC  
AAGGGAGAGG GGCCAGGGTA AAAGAGACGA GACTGTAGAG AGGCATAGAG AGACCAGTAG GAAGAGGGTG GGAGAGGGCA  
CTTATTTCTC TCTGTCTCT CAGTGGGTTA CAAATCAGAT CTGTGACAA CACTGAGGGG GCCAGGTCAG GGTATGTNGA  
TGAGAAATGA CACTGGAAGG AACATCAAAG CCGCAGCTAC AAAAAGAAAG TCATCAAGCC CCAAATAGAA GGGGAGCCT  
CCAGTGAC CTCAGAAAT

SEQ ID NO:460: (Length of Sequence = 380 Nucleotides)

GAGCTTTTGC ACTGCAAAAG GAACAGTCAG CAGAATAAC AGACAGTTAG AAGTACTTCC CTATGTAGAG ACACACTCAA  
GTGAAAGGGA ACCAGGCTCT ACCACTTGAA ATAAGGAGTA TCAAGGAAC TGTGGACAGC TTTTAAACT ACCACTGGCA  
ACTAGGTCTT GAGGTGGATA AATGAAGAAA TTTGGGGAAT CTCACACTGG AGATGTTTGA TGTAGGTAAA TGANCTGAGA  
TTCATTAGGT GTGAAATAAT GAAGTGATA TATAGTCTG CATATACATG CCTGGGGAAG GTATAATATT CAGAGGCATA  
CTATCACTCA ATTTGTATCT GCTGTGGGCC TCAGACAGTA CAGGGCAGT GTTTGCATTG

SEQ ID NO:461: (Length of Sequence = 317 Nucleotides)

GTCATTAGA AGCCTTATT GGGTTATATT CAATTTGACC TCCCACCAA TTAAGCGGA AAAACAAAA AAATAAGAAA  
TCCAGTAAA AGAGCCCTC AAGATTTTAT AACTTACAA CTAAAGCTGC TAGTTAATAA GGAATGGCA GAATTTTTCAG  
AGCTGTATA TACAAAAATT CCTGTAATIT AAGCAGATGT TTTCTCACT GATGACAAAT CTTCACAC AATGTGAAGT  
TATGCTACTT GGGATATTG TAGGCAAAAC CATTTTTTTT TTGTACAAA ACAAAAGCAA GGGACNTGG AAAAAA

SEQ ID NO:462: (Length of Sequence = 261 Nucleotides)

AAAAAGGCCA TAAATCTTIN CCTCGTGA GCTTACCTTC TAATAAGGAG AGACAGAGGG TNAGAAACAA ACAACAAAA  
ATATGTNAGT TAACACAGAG TGTTGGAGG TGTCAGGTGC TATGGGAGAA ACGTGGAGCA TGTCAAGNG AGAGCAGGCA  
AGAGGGCAIT CTGGAAGGC CTAGGANGAT GGTGACATTT TACCTTCATA TCCACCAACC CCCAGCACAA AGCATTTTCC  
AGAGGNAGNC AGAGGAGGGC A

SEQ ID NO:463: (Length of Sequence = 387 Nucleotides)

ATACAAGTAC ATCCAGGAGC TATGGAGAAA GAAGCAGTCT GATGTCATGC GCITTTCTCT GAGGGTCCGC TGCTGGCAGT  
ACCGCCAGCT CTCGTCTCT CACAGGGCTC CCGCCCCAC CCGGCTGAT AAAGCGCGCC GACTGGGCTA CAAGGCCAAG  
CAAGGTTACG TTATATATAG GATTCTGTIT CGCGTGGTG GCCGAAAACG CCCAGTTCTT AAGGGTGCAA CTTACGGCAA  
GCCTGTCCAT CATGGTGTTA ACCAGCTAAA GTTGTCTGA AGCCTTCAGT CCGTTGCAGA GGAGCGAGCT GGACGNCAT  
GTGGGGCTCT TGAGAGTCT GAATCTTAC TNGGGTTTG TGAAGATTTC ACATACAAAT TTTTGA

SEQ ID NO:464: (Length of Sequence = 397 Nucleotides)

GTTAGCGGTG GGTGTGGGC GTCCCTGAA CGTACCAGGT ATTGTGGCTC CATTTGGCTGA GGATGCTTCT CCAGCGAAGG  
AGGCAGGGAG CCGGGGAAGT GGGTGGGGT CGGACACCG ACAGCAGCTG CCAGACCAGC CATGCTGCC TCAGCTCCCT  
CAGGCTGTCA CTCCTAATCA TCATGCACT ATCTCTGGG CGTGTCACT ACCATCAACG ACGTGTCCCC CAAGCTGCCA  
AGGACGCAA TCCAGCTCTC CAAGAGGCTC TGTGGCCCT CTCCACATGG GCTTNAAGGT CAAGGGTTGG GGGCAGGTC  
GGACCGNCCT TCCTGNTCT TINGAAGAAG ATCCTCCAAN GTNCCGGCT TCAGCTTCTT CCGGGCTCT TTTGGCA

SEQ ID NO:465: (Length of Sequence = 320 Nucleotides)

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GACGACATTT ATTCCCTTTT CAAATGTTAC AGTAAACCA GGTGGAAGAG AATGGTITTA GCAGTTAGAA AAAAAAAAAA  
AGTACAAATC TGGGGTTTGG CCATTAAAAG TTATTTACAA CAGTGGGAGA AAAAAAGNCA AGAAGTTGTT TCACATTACA  
GACCTCCCCC CACCCCAAAG CTAATACTT GCTTACCAAG TCAAAAAGA GACACAGTTG ATTCACAGGC TGGAGGTTTG  
AACTTGAGTA AGACATTTAT AAAAACCTAG ACGGGGCAGT GTCCTNCCA GCCCAGGTGC CACTTAGGCC AGCACAAGGG

SEQ ID NO:466: (Length of Sequence = 352 Nucleotides)

CATTGTATTT CCCTTCTTCA AATTAATTAC CTACCAAAAA ATGGAAAAGA ATTTTACATG CACTTTAAAA TAGTAAAATG  
GAAAGTGAAT TTTTAAATA TATGCATTAA AAGTTTACTT TAAITTCAG TGGGACTTCC TTTATGAAAT TTTCATAAC  
CTCTTCTGG AGTATTACAA GATCTCCAAC ATCTCATAAA CTAATTGTGA TATTAGTGA ACCATAAGCA AATGTATATT  
TTTAGTGGAA ATAGATTATG AATGAAAGCC AAGCACCTTA CTTTAAAGCC AAAATATGAG ATTTTCCATT AAAAACCAAT  
GGTCATAAT AGGGAGGGG GTTTTAAAT TT

SEQ ID NO:467: (Length of Sequence = 352 Nucleotides)

TGAAAGGCAA AAAATAAATA AATAAAATA AATACCAATT GCAGAGACAG AGAAACCATC AGAAGAAGAC AAGCAAGGTT  
GTTTGAATTA CTACGCTAG AATTAGAAT AACTACTATG ATTAACAAG AAAAGGCTTT AATGGATAAA ATAGATAGCT  
CCTAATAACA GATAGTAATA ACATATGGGT AATGTGAGCA GAGAGATGGA AATCTTAGAN CAACAACAGC AACACGNCA  
AAGCGTTAGG GATCAAAAAC ACTGTAACAA AAATTAAGAN TCCCTTTTAT GGGCTTNTTA ATAGNCTNGG ATACAGGTAA  
GTAAAGAATC CCTGTGCTTT AAGGAGCCAT CA

SEQ ID NO:468: (Length of Sequence = 336 Nucleotides)

TGACATCTGC ATCTTACATT ATTAAATGCA AAGGAATATC AAGAGCTCCT CTGCTAGAAC CATTTTTATT CATAAAGTCA  
CATTATCATT GTAGAAGTCT TGTA AAAATG CTACCTGAAA TGAATTATGT CCGTCTTCCC ATCTGGCTTA CAAAATCTT  
GAGGAAGCAT CTGCTCTGTA GCTCTTTATC TTCTATTTT CTACTACAGG GACAATGAT ATGGAAAGAT AAATGTGTGT  
AGGTGTATAA ATTCTCAATA AATATTTGCT GAATTAGATT GTACAGTTGT TATCTTTTAA GNTTAACCTA TCCTGAGGTA  
CATTTTATTA TTGGGC

SEQ ID NO:469: (Length of Sequence = 156 Nucleotides)

GACGATGTA GAATTCGTG TGGAGAGTT CCCCCCTCA ATTCAATGGG AAGGNTCTTT TCTGGCATGA NCTCTCCGAT  
GTCTAATGAG CTCTGAGCAC CATCCATAAG CTTTNNCACA TTCITTANAT ATAAAAGGTT TCTCTCCACT GTGAAT

SEQ ID NO:470: (Length of Sequence = 350 Nucleotides)

TTCTCATGTC TGAATTCAC ACGCACAAGT CTGAAATGTG AAGGTTCTT AATGTTGGTT TTATGGTTCTG TGTAAGATTT  
TTGGGAAATG AAGGGCTCTT CATTAGGATA AAATGGTCTT AACITCCAG AGAAGAATTT CCTGACAACG TGGCTGAAGT  
TAGATACAAA TGTTAATATA GAAGANTGCT TTTATTTGAA TTTCTAGCAA ATGGTTTCA ACTACTTTAA ATATGACCNA  
CTTGAAAGTA TTATTCCTNT TTTAAACTA CTTTNTATGT ATAGATCTAA GTCTGCTTG AAGCTAGTAG GTTAAAGTGT  
TTGAGAAATA AAGGCAAGAT TTTTNCNTTA

SEQ ID NO:471: (Length of Sequence = 270 Nucleotides)

GGAGCAGGGC TGGGAGTCAG TGGGAGATTG GGAGTCCAAG TCTGGACATG TTACATATGC TATGTCTATT ACAGATCTGA  
GTATAAATGT GAAGTGGAGT TTTACCACGT GATTCTGAAG TTCAGAGAAG AGGTACAGGT TAGAGATAAA GATTINGGAG  
TCACAAATAT AAAGATGTAT GACTTNTATG GATTACCAAG GAAGTGGAGA TTAATAGCAA AAAGAAAAGT TTCAAGCTTC  
AAGCCCCGAA GCATTCTAAT GTTTACAGCT

SEQ ID NO:473: (Length of Sequence = 345 Nucleotides)

TTTATTGTAG TTCAAATACA TAAACTGAAC ATTCAAACAT CTTAAAATTA AACTTTAGCA ACAAAGTTTA ACATTCAAAC  
AGGAGTATAG TTTACAAGAA ACACCCAGAA AGGTAATTIG TTGCTAATC CAGAATATTG ATAAAGATCA CTTAATGGTG  
AATAAAATAT GTTTAACCAG TGGTTCTATT CTGGCCAACA TGTTAGTTAT GACCGTGGTT CCATACCTGA GAAGAAATTA  
CTACATAAAT CTCTCTTAG GCTAAACAAC ANGACTCGGT CTATAATTCA GAGGGGNTAA TCAAAGCACG TAAGGGTACC  
AAAATAAAAC TAATCTGATC TTTAG

SEQ ID NO:474: (Length of Sequence = 433 Nucleotides)

CAGAATTAGA GCTGTACCCC AAGGGGGAAT TCTGTCTAG GAGACAGTGA GTNCTAAGTA CACTCTGGAC AAGCACCAGA  
CACAGAAGCT GCCTCAGTTT GTGCTCCCC TGCAAAGCAG AGCCTGAGAC AAGGATTGG GTACAAGGAG TTTCACTCAA  
TATTATATTT CCAAGATGCA CCCATGCTTT ATATGGCTAT AGTGCATCCA TTTTACTGCT TTATACTTTC CATTAGGTGA  
CTATATTAGT ATATATTTAT AATTCTAGG TCTTTTGTG CTCTTATTG TTAATAATTA TAAACTCCAA GCCCATTGTG  
GTAGATTGCT ATTCTCAGA GATAITTTCT GCTCCTTCT GGGGGACAAT AATACINTTC TCCCATCAAT GGCAGATGIN  
GGCCTTGINA CATTTTCTGG TCAATGGAAT GAG

SEQ ID NO:475: (Length of Sequence = 427 Nucleotides)

GATATGGTTT GTGTGCCAC CCAAATCTCA TCTAGAAGTG TAGTTTCCAT AATCCCCACG TCGTGGANGG GACCTGGTGG  
GAGGTAATCG AACCATGGGG GTGGTTACCT CCATGCTGTC CTTATGATGG TGAGTTCTCA TGAGATCTGA TGGTTTATA  
AGGGACTTTT CCCCCCTTIG CTCTGCACIT TTCCATGCTG CCACCACGTG AAGAAGGATG TGTTTGCTTC TCCTTCCACC  
ATGATTTAAG TTTCTNAGG CCTCTCCAGC CATGCTGAAC TGTGAGTCAA TTAACCTCT TTCCTTTAA AATTACCCAG  
TCCCAGGAT GTCTTCATTA GCAACCTCAG AGCAGATTAG NCACAATTCC ACAACTTGA GAATNGGTGT TCAAGTTTCA  
CTCTGGCCTT NAACAACCCA AAATTTA

SEQ ID NO:476: (Length of Sequence = 351 Nucleotides)

CGCCGCTAGG GCGGCGGGG GTCCGGACGC CGGGCTAGGG GCGCGTCATG TGGCCGCTCA CGGTCCCGCC GNCCTGCTG  
CTGCTGCTGT GCTCAGGCTT GGCCGGACAG ACTCTCTTCC AGAACCAGAG AGAGGGCTGG CAGCTGTACA CCTCAGCCCA  
GGCCCCINAC GGGAAATGCA TCTNCACGGC CGTATCCCA GCGCAGAGTA CCTGCTCTCG AGATGGCAGG AGTCGGGAGC  
TGCGGCAACT NATGGAGAAG GTNCAGAACG TCTCCAGTTC CATGGAGGTC CTTNAGTNC GGAOGTATCG CGACCTCCAG  
TATGTACGGG GCATGGAGAC CCTCATTCGG A

SEQ ID NO:477: (Length of Sequence = 333 Nucleotides)

GGTCTCACTC CGTCATCCAA GCTGGAGTGC AGTGGTGCAA TCCTCAACTC ACTGCAACCT CCGCTCCCGG TTTGAGTGAT  
TCTCATGCCT CAGCCTCCCG AGTAGCTGGG ATTACAGGCA TGAGCCACTG TGCCAGCTG GGATATAGAA TCTAAGAGTT  
GATTGTGGAA AACACGTGAA TCTATTGCGC GCATTINTCA TTTAGCAAGA TGGCAGCAGT CCAGCTGTTT TTTGCAGCTG  
GAGATGAACT TTTAAAAATC CCTTTCACAC TTAATGTACT GACCGAGACA GAAGTACCTG AAAACAGCT NTGCATGGCA  
GGCCCGGCAA TAG

SEQ ID NO:478: (Length of Sequence = 458 Nucleotides)

ACATGTTAAA ATAAGGTAAT ATGAAATAAT CTAAAAAAA AAAAAGTGCA GAACCAAGAC CTCTGTGATA ATCCTATTTA  
AAAAAATAGC TACAATTTTA GTAGAATGT TTCCCTTAG AGAAAGCATT TTCTGCATAA CTTTTAATGT ACTGACCTTT  
TCCAAGCTTG CTGAGCTGGC CTTGTCTCA ACTCACTTGG GACACCTTC CCTGTGCTC ACCAGGGCCC ACCCAAGTC  
CCAGTTTCTC TAGGGGTCT CTGGGACCC CTTGAATCCC TTINCTGATT TGTGCTGCCT TTAGCAGNCG GAATGGGCTG

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GCAGACCACC CTACATNCTC CTGTGTGTGG GGACACTGTC AGGNTGTCTT CCTGTCATTA GNCCTGTGCTG AGTTTCCTAC  
CATGTGNCCA GGATGNGTTC CATAGTGGG GCATNAAGGA CTTAGGATGG GCCCAGTC

SEQ ID NO:479: (Length of Sequence = 360 Nucleotides)

GCATCGTATC TNCITTAAGA AAAACACTTC TTCAAAATCC TACACTATGA AAAACTGTCT TCAGGAATTG TTTATTGGT  
CCGTGATCT AGTGAGGCTG AGTTCITAAA TCTTTCACCC CCAAGTTAAA AATTGGAGCA ACAAACAAA ACTCCAGCAA  
GGCATAAATA AGATATTAAA GTGCATATAT ACAATACCAG AAAAGTTTAG ATTGGGAACA GCAAAATTT CTAGTGCAAA  
AACTGCTTTT GCCAGCAAAG CTCCCTCTCT GGAATCAAAG GGCTACAGTA AAAGTTAAA TTGGAACAGG NTAAGCAAT  
GTCTGTCTT AGTCACAAGT NAATATATGT GCATGCACCC

SEQ ID NO:480: (Length of Sequence = 322 Nucleotides)

GAAATTAAGT CTAAGCAAAA AGAAAAATAA AATGACGAGT TACTGGGTGC AGCACACCAA CATGGCACAT GTATACATAT  
GTAACAAACC TGCCCATCAT GCACATGTAC CCTAAACTT AAAGTATAAT AAAAAAAAAA AAANTGAAAA GCTTCAGCCA  
GAGGTACAA TGCTCACAAC TCATTGACCA AACTATCTC ATACCCGINT TAGAGCANGG NGCAGGAAAG CAAAACCAAT  
CTCTTACTG TTCACTGNA TACAAGTTCC ATGAGGGGAT GCAATTININ TCTTGGNCAC TCCTGTGTCC TCAGGGTATA  
GG

SEQ ID NO:481: (Length of Sequence = 369 Nucleotides)

CCTGGGCAAA GCATGTATCT GGTAGCCTTG CTCAGAAGC CTGTCTCTCA CAGTCAAGCC TCAGAAGCCA ACTCCTTTGA  
AACTTCCCAA CAGCAGGCT TTGGCCAAGC CCTGTGNTC ACAATTCGC AACACAACAA TCAGATGGCA CCAGGGACTG  
GCAGTCCAC TGCCGTCAAC TCCTGTCTC CTCAGACCT GTCATCCGTC CTGGGCTCAG GATTGGAGA GCTTGACCA  
CCAAAATGG CAAACATCAC CAGCTCCAG ATTTGGACC AGTTGAAAGC TCCAGTTTG GNCAGTTTT ANCACCANCC  
CAAGTACACA GCAGATAGG TACAAGTCAA CCTACAACT ACTACTCT

SEQ ID NO:482: (Length of Sequence = 255 Nucleotides)

GAGAGAATCT CGCTCTGTG CCCAGGCTGG AGTGAGTGG CGCAATCCG GCTCACTGCA ACCTCCGCT CCCGGTTCA  
AGTGATCTN CTGCTCGGC CTCCCACTA GTTGGGATTA CGGGTGACA CCACCGCACC CGGCTGATTT TTTGATTTT  
TGGTAGAGAT GGAGTTTAC CATGGCTGG CTGTCTTGA ACTCTGATC TCAGGTGATC TGCCCGCTC AGGCTACAG  
AGTCTGGG TTACA

SEQ ID NO:483: (Length of Sequence = 353 Nucleotides)

CTGGATAATC AGGGCCATGT GCTTTAACAG GATGTAAAGG GGAAGCTCAT GATTAAACAT GGGAAATATG CAGCAAATTG  
CAAGACCTGA GCTTAACCGC ATAATTAGAA CATAATTTIN CACTTCTTCC AGAGCATCAG CCAAGCAAAG GACTGAGAAA  
TCTGCAACCC AATGTCTTA AAAAGAACT TAGGCTTCAC ATTTGTGACA TAATTTCTTT TAAATGAAT ATAAATTTT  
ATTTTINATA TTTGTAGAGC ATAGGATGAT TGAAATCCAG TTGTGTGTTT ATCTGACCTC CATATCTAAT ATGGCTAGT  
CGTTACTAC TCTACAGAAC GCGCAATAAG TCA

SEQ ID NO:484: (Length of Sequence = 371 Nucleotides)

GACCCAGAAA ATGGAGCTAG CTACATTTCT CACACTTACT GTCATAATTA CATGTTTATA TTCTATTAGT TGTAATTATT  
TTTCACTAT CCTCTCATTA GAATGTATA CCTATAGAGC AGATACCAAT CCAGTTTIAA TTTTGTGCC GACTCCTAG  
TAAGTACGTG ACCTATTACA GGGAACTTAA AACAAACAAA AAGTCTGCTG AGTCTGGGAT GTTTTAAGGA TCGAAGGAAC  
ATGTTGGTCC AATTTGCTT CACAGAGGT TACCTCTGCT TTTCTACCGA ATGTGGAAT GCTCCCATGT GGATTTINAA  
GGAATCCAG TCTACCTCA GGGGAAGNC CACATGTAAT GCCAGAGTC T

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SEQ ID NO:485: (Length of Sequence = 376 Nucleotides)

GGTCCGACGC TGTGTCAAGC TCTGCACCGG CCATGAGTAT GCAGCCAAGA TCATCAACAC CAAGAAGCTG TCAGCCAGAG  
ATCACCAGAA GCTGGAGAGA GAGGCTCGGN TCTGCCGCCT TCTGAAGCAT TCCAACATCG TCGGTCTCCA CGACAGCATC  
TCCGAGGAGG GCTTCCACTA CCTGGTCTTC GATCTGGTCA CTGGTGGGA GCTCTTTGAA GACATGTGTG CGAGAGAGTA  
CTACAGCGAG GCTGATGCCA GTCACGTAT CCAGCAGATC CTGGGAGGCC GTTCTCCATT GTAACCAAAT GGGGTCGTG  
CACAGAGACC TCAAGCCGGA GAACCTGCTT CTNGCCAGCA AAGTCAAAG GGGCTT

SEQ ID NO:486: (Length of Sequence = 396 Nucleotides)

TGTGATTTTG TGTCTAATTC CAGCTACTTT GAAAGCTAAG GCAAGGGGAT TACTGTATTA ATAAATTCTC ATGCTGTTAA  
TAAAGACATA ACCAAGACTG GATAATTCAT AATGAAAAG GTTAATGGCC TCACAGTTTC ACATGGCTGG GGAGGTCTCA  
CAATTATTGG AGCAAACAAG AGACTTTGTT CAGGGGAATC TCCACTTATA AAACCATCAG ATCACGTGAG ACTTTTTTGC  
TATCATGAGA ACAGCATGGG AAAATCCAC CCCCATGATT CAATTACCTC CCACAGGGTC CCTCCAGGG ACATGTGGAG  
ATTATTACAA TTCAAGATGA GATTTGGTTG GGGACAGAGA GGCCAAACCA TATCAATTAC TTAAGGCTAG GGGTTT

SEQ ID NO:487: (Length of Sequence = 375 Nucleotides)

TGATTAAAT AATAGAGTIT AGTAATATGG ATGAATATAA GATAAATATT TAAAAAGCAG TTGTATTTTT ATAGCCCAGC  
AAGATAAAGT TCAAATATGT ATTTTTTATA AAGATGGATT TACAATAACA TCAAAAATTA AAATGCACCT TGAAATAATA  
AAGACATGTA AACCTTTITA TGANGACAGA TTTTITAANG CATTTTAAA AATNCTTTTT CATTGACAAA TAATTATCCN  
TATTTNIGGG GTACACAGTA ATGTTTCAAT ACATATAATA AATAGTGATC AGATCAGAAT AATCAGCTTA TCCATCATTT  
CAACACTTA TCATTTCTNT GTGTTAGGGG CCATTCACCA TCCGCTTCT GGCTA

SEQ ID NO:488: (Length of Sequence = 323 Nucleotides)

CACCTGATTA ATGATTGGNT TAACAGTATA TAAACAAGGG CCATGGTTTT TTTTACTAAA GTAGGTCTGA AAGATCAATA  
TAAATACTAA TGGGGGCAGG GAGGAGTGT TTATACCCCA AACTCCAATA TTCCAGCTCT GTGTCCTGTC CTATTATTAT  
AATTTGTAAA AATCTTAACG ACGCAGTGAT TCGAGTTTTG GTAACCTCAA TGATGTGTTA GAGGACAATG CATCTTGGTT  
TGAAGAATTT GCTGTATCCG AAGGCCGGAA AAGTACTCGA CCACGATGAT TAAATACATA AAAGGATGGG TGATTCCTTA  
CCG

SEQ ID NO:489: (Length of Sequence = 326 Nucleotides)

TTACCTTTTA CTCTGATCAT AATCTCCAC CTGTCTAAGA GGTTATTTAT TCCTTATTA GAGGGCTCT ATTGCCATGT  
GCCTGGAATT ATTATATGCT CATCACTTA TGAAGAATAA AATTGTCTT TCCTGCTTA AAGTTACATT CGTCTTCCG  
CTCAATCCT GATCTGGTCC ATTAAAGAGT GTTCGCAGAC AAAGTTCTG AAAGATTAGA GAAGAATCCC CCCCAAGATT  
GCCCCAACAC TGAACACAG ACAACACTA TTTTATTTAA ATAAGGNGAC AGCTTTCTAA AAGTATACAT TCCTCTAATA  
AAAATA

SEQ ID NO:490: (Length of Sequence = 186 Nucleotides)

CTCAGATCCA TCAAGATGTG AAACTCGCA GTTGGTGCA GAGAAGGTAC ATGGGTTTCC TTCTTTTCTC ATCTGTATTC  
CCTTTTCTGC AATTATTTTC TTGCCACAT ACTAGCCAGC AAACCAGGCA CCTTGGCAG AGCCATTAAAG CTACAAAAAT  
ACTTAATATT TTAATTGAA CTCGTC

SEQ ID NO:491: (Length of Sequence = 347 Nucleotides)

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CCTGTACTTG TCGTCCCTCA TTCACITAAT TATGATACTT GCCTGGCATC TTGCAGGTTT CTGATGCTGT TACCCAGTA  
 TAGACCAAGT GCAGACAGAA TTTCATTTCCT GCTTTATTAA GGCACAGTCT TGAGAAACCC ATTGGCTTCA CACACAATTA  
 ATTAATTINT GGCAACAAGC TACTATATTG GCTTGCATGT CACTTTCACC TCTCTGGGCA TTAGTTTINCT CTAATATTTA  
 TAAAAGAAGG ACATGACTTT CTAAGGTTCC TTGCAGTAAT TATGCAGTTC TATTCTAATA GATGCTTAAG CATAAAACCC  
 ATTTTAATAC TGTCCCAAGG ATCCAGG

SEQ ID NO:492: (Length of Sequence = 320 Nucleotides)

GAATTTGGNT CCAAAGTTTG GACATTGCAT TTCATTATA CGTCCCTTAA GTTTATTTTA ATCTGATTTT TCCTCCTCCC  
 TTTTGTGTTT TTTGTAATCT CTTTTTGCTG TTGTTTTCGG TTAAGAAAC CATGTTTTTT TCGTCCCTG AGTGGCTCCT  
 GTTCAGAAAT TTAATGATTT CATCTGCTGG TATCATTTAG CATGTTGCTC TGTCCGCCGT AGTACTTTAA ACTAGACGTT  
 AGATCTAGAG ATGTGATCTA CTTCGGTAGG ACTTTGTCAA GAATACTTGT AAGTAGGTAT TTAGGTACCA GGGGNCACAT

SEQ ID NO:493: (Length of Sequence = 339 Nucleotides)

TGCCAAGTTT GCTGGAACAT TATCAGATGG CTTAGGGAAG ACGATGGACA ATCGGCATCA GTCAGAGCGG GAGTACATCA  
 GGTACCATGC AGCCACAAGT GGTGAACACC TTGTAGCCGG CATCCATGGC CTGGCTCATG GTATCATTGG TGGACTGAAC  
 AGTGTTATAA CTTGACAGT GGAAGGTGTG AAAACAGAAG GGGGTGTGAG CGGTTTCATA TCTGGCCTTG GAAAAGGGCT  
 TGTGTGCACT GTAACCAAGC CANTGGCAGG CGCCCTGGAT TTGTCATCAG AAACAGNCCA GGCCTGTAGA GACACAGNCA  
 CACTTCAGCG GCCCCAGGN

SEQ ID NO:494: (Length of Sequence = 366 Nucleotides)

GTAGGCCCTT GGAAAGTAAT TAGGATTAGA TAAATCATC AGGGTGGGGC CACCATAATG GGGCTGGTGG CTTTATAAGA  
 GGAAGAGAGA CTTGAGCTGA CACGCATGTA CTTCCTCTCT TGTATGTGG TCCCTCAGC CATGTTAGGG CACAGCAAGA  
 AGGCCCTCAC CAGATATTGG GTGGGTCTTN GACCTCCAC CCTCCAGAAC TGTAGAAAT AGATTTTTTT ATATATTACC  
 CAGTCTATGA TATTCTGTTA CGGNAACAGN AAACAGACTA AGACAAGCTT CTAAACAAA TTGANAAATAG AGTTTTAAGA  
 TNCAGACTTT CATTCCTTT AACAGGGGCC AAGAATATCT ATTCA

SEQ ID NO:495: (Length of Sequence = 384 Nucleotides)

CGAGGAAGGC AAGAAGCGCA GGGGGTGGCC CGCTGGCGT CGTGGGCTC CGCTCCTGCT CGCAGCCCTT GTGGTCAGAG  
 CTGGATACAA GATTCAAGAC CCTTCINTG CTGTINACCC GCTCCAGGTT GGAGCCACAG ACACCCACCG CCACCCCGGC  
 TGGGTCTGCN TCCPTTCCG TGCTTTCCC TCCAGAATGC GGCTCAGAC CTAGAAGCTC AACCCCCCTA TGAGGGCCAC  
 GTCTGGGGT AGCTCCTGAC CTNCGACCTT ATGTCCAAAT TTCACACCA TGGTTTTTCA TTTGACCGG CCCCTTCTCG  
 CTCATAATGA CAACNAGCTT CCTTTGAGAG GGATCAGAGN CCAATTGCAC AAGGAGGAGC CGCT

SEQ ID NO:496: (Length of Sequence = 342 Nucleotides)

TACCTTAGTA AATGCAATTT TCGAACAGGC CCCATCTTC AACTGGTATA GCATCTTCCA CACCTGTAG CCTTCAAACA  
 TCACCTGTTA AAATACTGCC CATTCATGT CATGTATATC TGCCCATTTA TGGAGCAGT GAGTGAACC CTGACAGTGA  
 CGGACTTTAA GCTGTACTTC AAAAATGTGG AGAGGGACCC GCATTTTATC CTTGATGTTT CCTTGGAGT GATCAGCAGA  
 GTGGAGAAGA TTGTGNCAC AGAGCCATGG AGACAATTCC TGTGGTATAG AGATAGTGTG CAAGGATATG AGGAACCTGC  
 GGCITGCTTA TAAACAGGA AG

SEQ ID NO:497: (Length of Sequence = 273 Nucleotides)

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GATTATTAA GTATCCCGA AAATATAAAC ACAACCAGT AAAAAACAAA ACCGTAAAAC GTCAGGCCTG GAGCTGCAAT  
AAGACAGAGA CAGGAGCAGC TCACACGTGG CCTAGGTGGG GAGGACGAGG CCATAAATAC TGCAGGAGGG CGGCAAGGGA  
GCCCTAGGGC GAGGGGAAAG CAGGGTGTGG GCAGCGAGAT GGNCCNGGG GTTTAGACAC TGCTGGCTTC GGNCCCGGCC  
GGCACCANGA CTCTCACTTC CAGCTGCGAG CAG

SEQ ID NO:498: (Length of Sequence = 319 Nucleotides)

ATTCCCAAAA ATAGAGTCTG GACCTCTTAC CGCTACAAAT TCCAGGTCT CAGGTACAGC CTGAGAGTAT GCAGATATAA  
TACACCACAG ATGATTCTCT CCTTTTITG TTTTITTTTT TTTTITTTTT TTTTGAGACA GAATCTCATT CTGTCACCCA  
GGTGGAGTG CAGTGGGCTG ATCTCGGCTC ANTACTTCTC CCGCTCCNG GNTTCAAGCA ATTCTCTGCT CTNAGCCTCC  
CGAGTAGCTG GGNCTACAGG NGCACCAC CATGCCATC CAATTTTTGG ATTTTAAGTA TAGTGGGGT TTCACCAIT

SEQ ID NO:499: (Length of Sequence = 408 Nucleotides)

GAGAAATACC TAATGTGAAT GACGAGTGA TGGGTGCAGC ACACCAACAT GGCACATGTA TACCTATGTA ACAACCTGC  
ACATGTGAC ATGTACTCTA GAACTTAAAG TATAATAATA AAAAAAGAGA ACCTTTAAAA AAAAATAGAC TGCCAGATAG  
ACTAATAAAT AAAAAAGAGA GGTTGAAATA ATCATAAATG ACTAAGGGGA TGTTACCCCA CAGAACTACA AAAAAACAAC  
AAAAAACCT CAGAGACTAC TAAACACTC CTATGCACAC AAAGTAGAAA ACCTAGAAGA AATGGGTAAA TTTCTGGAAA  
CATACANCCA CCGAAGATTG AACCAGGAG AGATTAAAGC CCTGAACAGA CTAATAATGG NGTTTCAAAA ATTGAATCAG  
TAATAAAA

SEQ ID NO:500: (Length of Sequence = 474 Nucleotides)

TTTATTTTTT TTCACGTGTA CTGTTTTTNA TCCTTGATTG ATAAAAATGA AAATGCCAAA ATGAGGGTTA GCTTAATTTA  
AAGTATAAGC GTAGTTAGCA GCTTTTNGTA ATCACTCCTG TCCATTTTAA AAATAATCCT CATAGGAGTA TAAACAGAGG  
AAGGAGAAAT GGAGGATGGG CTTAAGAGAA AGAGTATTTT ACAATGTCT GCATAGCAAA TTCAATTCAT CTACCTAGTA  
GCTCCTTCCG TGTTAACCTA CAGGTGTCT CCCCTCCAAA AAAAAGCATC TTTTAGGAAG AAACCACCTT AACACTACCT  
TTAGANGATT GAACCTCCAG GGATAGGTG TTTAGAGAA TCACCAAAAG CCATTTTAA ATGAATTTTT AAATTACGGC  
TTTCTCATT CTATATAATAG TGTAGCAGCC ACCCTCCCTC TACTATGGAA CTTTAAACCA ATAATCCAAG TCCT

SEQ ID NO:501: (Length of Sequence = 378 Nucleotides)

GTGGTGGCGG GCGCTGACC TCGTATCCG CCCGCTCAG CCTCCCAAAG TGTTGGGATT ACAGGCGTGA GCACCGCACC  
CGGCCCTTGT GTACATTTTT ATAAGAGAAT TTTTTTAGCT AGGAGTTCAG AATTTTTTAA GTACCATTTG AATGATCTTA  
ATTTTNCCTT CATGACAACA CATCCAAAA TGAATCATGC TTATGTACTA AGAGGGAAAA TGTATTAAAG NTAAGGGTGA  
GAGACTTAAG TTATAGGTGA CCTTAGAGAC CTAAGGTGAG AGACTTGACA CATGGAAGGA GTACATTAG GGTCTACCTC  
TACCTCAATT TAGTTAGCGA TTTACTACAA TTTAGAGCT AACAAAAGTA AAAATAAA

SEQ ID NO:502: (Length of Sequence = 448 Nucleotides)

TTTTGGAGAT GGAGTCTTGC TCTGTGCCC AGGCTGGAGT TCAATGGCAC AAAGTGGCT CACTGCAACC TCCGCTCCC  
AGGTTCAAGC AATTTTCTG CTCAGCCTC CCGAGTAGCT GGAATTACAG GCACACGCCA CCATGCCAG CTAATTTTTG  
TATTTTAGTA GAGACGGGGG TTTCACCATG TTGGCCAGGC TGGTCTCAA CTCTGAACT CAGGTGATCC ACTCCCTCGG  
CCTCCCAAAG GGTGGGATT GCAGGCGTGA GCACACGNC CAGCATGAT CCTTAAACTT GTTTAAGAG GTATAATAAC  
TGGAAATCAT GATGCTCTT AAGGAATACC AATTGGATGT ATTATGATG TATTTAATTC CATCCATATG NAGTAGAAAC  
AGTTTTCAAT AGCAGAAGGC AATTATATTA TAGCTACACA ATATAAAG

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SEQ ID NO:503: (Length of Sequence = 446 Nucleotides)

CTACAGTACC CATCTCCATT TTCAGAGAGC TCCGATGGAA ATTCTATGA ACTAATTCTC CTGCACATAC TTTGGTACAA  
GTGGGCTACT GGAGCCACCT TCCTTCGTTT AATCAAACAG CATTTATTCA GCTTATTTAA TGAACACTAT CCAAGATACT  
TGGGGGACAG AAATGAAAAG ATGGGGAGAC CTGTCAAACA TATGGTACTA TGTCTATGCA AAATAACATT GGAATGTAGA  
TTCACAGTGG AAGGCAGGGC AGGCATGGAA GAATTCTGAG AATGAGTGTG ACAGCTCCTA CCTGTAAACAG CTCITCAAGC  
TCCTGCTGGA AGCGGTCACT CAGCAAATCT ACTAGCTGGC TGGGGGCAAA AGTCCGCCCG GCTGGAGGAA AGTGAATTCC  
GGGATTTACA GAGCAGGTAG AGGCATGCG GCCCAGCCCT CAAGCA

SEQ ID NO:504: (Length of Sequence = 248 Nucleotides)

TTGCTCTTCT TTCTTACCAT GGGAACTGCC TTCTCAGGGG ATTTTNAGGT CTCGGTGTIT CTGTGTTTCT NAATAGGCAG  
TTTCTCGCTG TGGGCTAAGG GCTTATCCAG GNCAATATCC AGAGCCCTGT AGGGGTCTGT GGGGTCTTTG TCATCTCTGT  
CGCTGGGCAG AGCATTCTCA GGCATCTCCT CTGTNACGAT GTCCACTGTC TGGGCAAGGG CGATGTCTTC GTGCTCTCC  
GTGGGCAA

SEQ ID NO:505: (Length of Sequence = 367 Nucleotides)

GCTATGTTGC CCAGGCTGTT CTCAAACCTT TGAGCTCAAG CAGTCTCTC ACCTGTCTCC CAAAGTCTG GGATTACAGG  
CATGAGCGAC TGTCGCTGGC TTACTTAAAT TTAAGAAT TGTGTTGAAC CATCTGCTGA TCATGGAGCA GCAGAGAAAT  
TTATTGACAG ATTTTCTAGG GTCATCACTG ATGACAATCT GNTGCCAGAA CAAGCCTGTA ATGCTGATGA AACATCACTG  
TTCTGGCAIT ATGCTCTCAG AAAGATACTG ACTACAGCTG ATGCAAGGC CCCTGTAGGC AGTAAGGATG CCAAGGACAG  
AATAACTGTT CTGGAATGTG CTAATAATGC AGCAGGCAIT CAATAAG

SEQ ID NO:506: (Length of Sequence = 419 Nucleotides)

ACACCTGGTG ACTTTAGCTA TGCTATCAA AAGCCTGAGG AAACAACCAG GTCCCCAGAT GAAGAAGATT ATGACTATGA  
GTCTTATGAG AAGACCACCC GGACCTCAGA TGTGGGTGGC TATTACTATG AGAAGATAGA GAGAACCACA AAATCTCCAA  
GTGACAGTGG CTACTCTAT GAGACCATG GGAAACTAC CAAGACCCCT GAAGATGGTG ACTATTCCTA TGAATTTATT  
GAGAAGACCA CACGACCCC TGAAGAGGT GGGTACTCAT ATGACATAAG TGAAAAGACC ACCAGCCCCC CCGAAGTGAG  
TGGTTACAGC TATGAAAAGA CTGAGAGGTC TAGAAGGCTT CTGGGATGAC ATCAGCAATG GCTATGGATG GACTCTAAGG  
ATGGTTGGCC ACACAACCT

SEQ ID NO:507: (Length of Sequence = 417 Nucleotides)

GAAACTATT TTACTTAAAA AATATTCTAT TACTTCAATG TCATGTCGT TGAACGAGGA ACTCAACATG CTTATTINCC  
TTTGGTTCCA AGAAAAACC AAGTCTAACC AAATGTATGC CACAAGGAAC TGCCAACCTG GTTAAAGCTT GGTATTTTCC  
TGGTTATCAC CCTATTTCTT GGTGTAGGAC CTGGGGTTTA ATAGAGACAT TTACATAAAA AAGGTATTTG GTTAAACAA  
GAAATATGCA TGCNCTTCTT TACCACCTTC CTGGGAAAGA ACTGCTTTT TTNCTTTCTT TCTGTGAATC TTGTTCAAGA  
CATCCGTAG TTAGATATA TGGGCTGCTT CTTTTTACC CTCAGCTTT TAGGTGACAC TTATAAGGT GAGCATATCA  
TTCTATAAAA TGAAGA

SEQ ID NO:508: (Length of Sequence = 308 Nucleotides)

CTGTTTAGAA AAAAAAGTGC AGTCACTGT CAGCACTCAT TGAATTTTGC ATAAACATGC TTTTGGAGC TGAAGCAAT  
CTGACTGATT TTCAATGTGA AAATAAATA TAAANCTGT TTTTAGAGTT ATTTATTAAC AGAACTAACA TCAGAATTAT  
TTGAATCACC AGAATAATCA ATTCIGGAAA AATCAGATTC ATCAGATTAA TCTTTGGCCA ACAACTGTTT AAGAACAATG  
TTAACATCTG CATGGCAATG CTACATTINC TAGGATTGA CATTTTCAGC AATTGAGGAA TTACTATA

SEQ ID NO:509: (Length of Sequence = 370 Nucleotides)

TTTTTGAGAC GGAGTTTCAC TCTTGTGGC CAGGCTGGAG TGCAATGGCA TGATCTGGC TCACCGCAAC CTCGCCCTCC  
CGGGTTCAAG CGATTCTCCT GCTCAGCCT CCCAAGTAGC TGGGATTACA GGCACGGGCC ACCACGCCCTG GCTGATTITN  
TATTTTITAGT AGACACGGGT TTTCACCATG TTGGTCAGGC TGGTCTCAAA CTCGCCACCT CAAGTAGTCT GCTGCGCTCA  
ACCTCCCAAA GTGCTGGGAT TACAGGCGTG AGCACTTGGC CCTGGCGGTG ACTGATTTTT TTTCATGTAG AATGTGCAAC  
ACGAGAGATC ACAAGTGGAG CACTTTGAAA GACCGTCGGT TGTGTGCACG

SEQ ID NO:510: (Length of Sequence = 446 Nucleotides)

TCTTTCCTCT TACTTTCCTT CCTTCCCTCC TTTCATATGA GAGACTCTAT ATGGAAGAGG AAGCTGAAGT GGCTGCACA  
CGATATAGAA AAGCCATATT ACTTTCCTAA GACTGGTAAT CCGGCAATAC CTAATGCAGC ACATGGCTAG AGACTCCACA  
TTTGCCCAAC TTCTCGCTC ATCAITTGCC ACTGTTCTGT AAATTTCCCA GTCCCTCAC AGAAAGCACA TGGCACCATT  
TAAAATGGCT GCTCACTCTC TAAGGGAGGT CTCACAGGCT GGTAGTGAAGC CCTGTCCAA TAGTGAAGTT CTCACAAAT  
GGGAGACTT CTCCAGGAG GAGGGGAGGC CTGGAGATGG GCATGCAGTG GGCAATGTCA GCTGCCCTCC AGGTTCCTGC  
TTGCCCTTTT TCCGCCCTGG GTCAGTATAC AAGCTTTCGG GGGACA

SEQ ID NO:511: (Length of Sequence = 354 Nucleotides)

AATACCAAAC TGAACAAACC TGTCCTTTC TGGTTAAAC AAAAAAAAAA AAACAAAAC AAACAAACAA AAAAAATCAC  
ACAGTTTAAT AAAGANGCAA CTCTTCTCTT TTAGNGCAA GGAATACCA TCTAATTCCT ATCTATTGAG CCCCCAAAAG  
CTCCCTTCAG AGTCTTCTT CTCTTTATCA ACAGAAAAGT CTAGAATGAN TATTCACAGT TTTCTAAGAA AACCAGAAAG  
CCTTTAAGCA GCATTAGCTG GNCATATTC TGTTCCTAT AGTTACCATA GATGAGTACA GCTTTACACT AGGGGGCTGG  
GAGTTCAGAC TCACAGCAGA GACTNCTGGG GTAG

SEQ ID NO:512: (Length of Sequence = 374 Nucleotides)

CATGTATATT ACAAAAAGT TCCTGTACCA AAGTCTTAT TAGACTTTAT TTTGTITTTT TTAATTTTTA AAATTTTTTT  
TGTTTTTATT TTTATTTTTT AAATTINCTC TCCTGTGGT GACTGTCTG TGATTGTCTC AGTTTCTGGA CCAACAAAC  
ACACTAATAA TTTTAAATCT GAAACAGTGA TTGTCCCTTT NGGCTCATGT ATGTACAGGG TGATCAGAAG TGGTACCTGT  
TAGCAAAAGT GTCACGATC TGCACCTCTA CCGAACTGA TACCCAGAA CTACGGAATC TAAACAGACT ACACCCCTGA  
ACTGCGTATT ACTGTCCACA ATGGGGATCT CCAAGACAA AAGAGGTATG GAAA

SEQ ID NO:513: (Length of Sequence = 463 Nucleotides)

ATCAGCAGAT TTNCCTCTG TGAATGTCTA ATCAGTGTA TTTCATAGG CTATACITAC CTTTTGGGG CTACTTGCCA  
ATNATGTTTG GTCAGTATCC TTGCAACAA CAGAGTGACA GATTCTAAA ATGACTTTGC AGGCCAGTAC TAAGAAAGAC  
ACCAAGGTC ATGGGCTTGC AATAAAAAG TCCATAACTT CCTGCCCTA CTTCACCAAG TGAAATCGAG TTCTCACAC  
TTCTGCACAC AGCTCTTTCA GGATCTTCCC TTCCCTTCAA GGCTGTCTGA TGTTCAGTTT AATTTGATTG TATTTGTATA  
AAGTGCTGAG TGTGTAGTCC TCAAAGAAAT TTACTTTCAG TCTAANGCCC CCTTGGGACA AGAAAGTGGC AACCAGGCAG  
ATGATTGATT ACTTATTTGT TTGAGTATCA CTTTGTGATT GTCCAGGGC TGTATTACAC ATA

SEQ ID NO:514: (Length of Sequence = 396 Nucleotides)

CCAAACCAGA AAACGTTTCC TGGCTCTCTA CTAACAGTAA AATGTGCTGA GCCCAAATTT TCTGCTCTAA CATGGGTCCC  
ACGGACCTAT CAGTCTGCTC TGGGTGCTG ACCTGCTGGG TCCTGAGCAG GGTCTTTCCC TAAGCATCAC TGTGGGTTTG  
GAGACAGCTG TAATGTGTGC AGCTGTGAGC AGAAAGTACA ATGCCACTGG GCTACATATG TCCATATCAT CCACCACCAT

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TTCCCACTGT AAAACCAAAG GCTGCAACTG TGAACAAATG TGGACTTCCT CAAAGGACAA ATGAGGAGAC TGAAGGCTAC  
ATTTCCTCCT TTGAGAACCC ATTAGAGAGT GTCTACAGTT ATACAACAGG TTCTGCAAG ACCCTGTGGG TAACTT

SEQ ID NO:515: (Length of Sequence = 416 Nucleotides)

ACAAAACAAA AAGTAGTAGC ATCTCTGTGA GAGGTACACA GTTAGAAAA TGATTCCACA CACGAGTAAA GAGATTTACC  
AGGAAGAGTC TTGTTTCTA AAAGTTGATA CAACTAGTAG AAAAATACTT GTCAGTGGTA AATAGAGCAG AAGTAGAAAA  
AGCAGTTAAT CTATTAGATC AGATCAGAGT GTAAGGCAGG TATATCAGGC CAAAGGTGAT AAGACAGAGC AGAAATAAAG  
TATTGTTAAT TCATGCATTT NCTGACTCAT TTATTTATAC ATTGATACTG TCACTTATAA ATCAAATCTT ACAGGTCAGG  
TTCTGTGCTA AGCTCAGGGG NTATAAAANG AAATANGTCA CTGCACTCGC CCTCACGGG GCCCACCAGT ATAAGTGGT  
AGATAGTTCT ATAAAG

SEQ ID NO:516: (Length of Sequence = 368 Nucleotides)

CCCATGGAGC TCGAGAACAT CGTAGCGAAC ACGGTGCTAC TCAAGGCCCG GGAAGGTGGC GGTGGAAATC GCAAAGSCAA  
AAGCAAGAAA TGCGCGCAGA TGCTCCAGTT CCTCACAAC AGCCAGTGGG AAGAGCTGGG GCTCAGCCTC GAGCGTGACT  
ATCAGAGCCT GTGCGAGCGG CANCCATTGG GCGCCTGCTG TTCCGAGAGT TCINTGCCAC GAGGCGGGAG CTNAGCCGCT  
GCGTCGCCCT OCTGGATGGG GTGGCCGAGT ATGAAGTGAC CCCGATNAC AAGCGGAAGG CATGTGGGGC GCANTAACCG  
CAGAATTTTC TNAGNCACAN GGGTCCTGAC CTCATCCCTG AGGTTCCT

SEQ ID NO:517: (Length of Sequence = 393 Nucleotides)

CCCAGCGCCT GGAGAGCCAG CCTGCGAGG TGGGCTGGG GAGCCAAACT GCGTTCTGG TGCAGGGCTT CCGGTCTCCC  
TAACAGACCT TATACGCTGA CCGCGGCGG CCATGGCAGT GTCTCTTTGC TCAGACATCC AGGGACGACC ACATTCTGCC  
AACAGCGGTC GCTCCACCAA TCCTGGGAGA AGCGAATCGT TTCTCCGCG TGCCCTGTCA GCCGCTCATG GTGCCAGAG  
AGGAATTTTA GTGGCAGCAT TCCGGCTGTC ACNCCACCGA AATTNCCAGG CCACTCCAAG TCAGAAGGGA CCACCAGGAA  
AAGTCAGGAA GAGAACCACC ATCAAGGTCC CAGGCTCTTT TTTGTGACA AGGACTTAGA GGGGTTTGGG TCT

SEQ ID NO:518: (Length of Sequence = 465 Nucleotides)

CCTTCTCTGC AGATAGAAGA GCCAGAATGG GAAAAGCGAA GATCCATCAA CCTGTCTGAG CTCATTGATG TTTACAGTGA  
TGGTGTGAA CTACTCCAGA TGGTGAAGGC ACCAGATTCC AACTGCAGCA ACCTTCTGAT TACAACCAGA CAAAGCCTTG  
TNCIGCTTCG GGGGCAAAAT CTGACACCTT ACTGGGCATT GAGACTTCAA GGCCTGCGCA GCAGCCTACT CCTGGATATT  
TCACTGATGA TCAGACATTA GACTTCCTTC TGCAGATACA GGATGGAGIT GGGATGAAA AGATGATGGT TGTGGATGGT  
GACTCTGGGC TCCATGTGTT GGAGTTACCG TGCTCCGTTG TCACATGAAA GAAAACGGCC AGCCACCTCA GCAGTTACTT  
TCAGACCAGA AGTCTGTCTT TCCTCTTCG GGGCCGAAGG CTGTGAGGT TGCATCTTCC CAATT

SEQ ID NO:519: (Length of Sequence = 382 Nucleotides)

GGCCGTCGGT AACAGAAAAC TCAGTGCAAT CTTGTCTGTT GTTAGGTTGT CAATATAGTC TTTCTGTAGG ATGGATAGCA  
TGTTTGAGAG GTGCCAAACA AGAAGTTTGG GGGTTAGTAG TGTGTCTTGT GGAGGGTATT ACAGGACTGT GTAATTATAG  
GACTCTAAGT TGACATGGCT TGGCACCCAC TTGCAGCTAG TGGGTACAGG GTACAAAAGA TGTAGAGAA AAGCTCTACA  
GATTACGTAC TTCTGTGCTT TCGTATGCTC AACACTGTCC TTTTGTCTC CATGAAAGAT GAAGGAAGCA AATTATGTA  
TGTCCTTCT TTGACCTTCT TTAATCCTCT GATACTTTT AGATGCAATG ATTTTACTAG GC

SEQ ID NO:520: (Length of Sequence = 304 Nucleotides)

CCAAGACTGC TGATCTCTAA ACAAGCATCA AAACCCGAAG CTCATTAACA TCAGAGTGAG CTTCAATAAG GTGANCACTA  
CAATGATGTA CAATTACATC CPAATANTTC ANTGCCCAAG AGCCCTGTAG AACTATTGCA AGGCCCAGGN TTATCACAGT  
ATGCAAATGC ACTAGGAAAA TCATTACCTA TTTAGTCCCC,TTTATTTTGG TGGGTTTAAC ATGAGAAGAG TAATCCATGC  
TACAAGACGA GATTTCAITTT TACAGCTGTA GTAGCCAAGT GCATAAAAGC TTGANTCTGT CCGA

SEQ ID NO:521: (Length of Sequence = 360 Nucleotides)

TTGAGACGGA GCITTCCTCG TCACCCATGC TGGAGTGAG TGGCGCTATC TCAGCTCACT ACAACCTCCA CCTCCAGGT  
CCAAGTGATT CTCCCGCTC AGCCTCCAA GCAGCTGGA TTACAGCGT GAGTCACCTG CCTCAGCCTC CCACAGTGCT  
GGGATTACAG GTGTGAGCCA CTGCCCAGG CCTCCCAAGG TGTGGGATT ACAGGCGTGA GCACCGCTCC GGGCCTCCCA  
CAGTGCTAGG ATTACAGGTG TCAGCTGCTG CACCTGGCAA TTTTITGATA TTAGGTCCCC TGAAGTCCAA AAAGAGATAT  
ATGCGTTATT TGGTATAATG AAATCATACA GGAAGGCATT

SEQ ID NO:522: (Length of Sequence = 287 Nucleotides)

TTGAGGAAGT TCTGTGCTG GTGAGGAAAT TCINTTGAGT TCTGTAGGAA TTTTATAGC TTGTTTTCGA TTCAGTTCTA  
TCAACAAGCC AGCAGCAACT CAAAGGGAAG CCTCCTNCIG GCATATCAAT CACACAGGCA CATAGGATCA TATAGCATAT  
AGGATCAGTC CCAAGAAGAA CTATNGGGTN GGGGAGAGGT TTTTCTTCCA CTTCTTGGN TTCAGTGACT TTGAGATGGA  
CCTCTTTTTT CNNTGGACA AAATGTCATC ACACCAACAT CTTATTG

SEQ ID NO:523: (Length of Sequence = 318 Nucleotides)

CCITGTCTCT ACTAAAAATA CAAAATTAG CCGGCATGG TGTCACGTGT CTGINATCCC AGCTACTCGG GAGGCTGAGG  
CAGAAAAATT GCTTGAACCT GGGAGGCAGA GGTTCAGAC AGCTGAGATC ACTCCATTGC ACTCCAGCCT GGGCAACAAG  
AGCAAACTT TGCTACAAG TCCTCCTACG CTGACAGGTC CTCACTCACC TGAATCTTTT ACGCCAGCAG CGTCTCTTCA  
CTGACGINCT TCINCATGCC GGAAATAGGA CCTTCCCTTG CCANCGGCA GTGCTGGCTG CATGCAGTCG TTACTTTT

SEQ ID NO:524: (Length of Sequence = 238 Nucleotides)

ATCTCATTGG AGCCAGGGTT CCAGTTCTCA TGCAAGTCGG CCACAGGAGC CACGGAACCG CAGTAGGATT TCTACTGTTA  
TACAGCCCTT GAGGCAGAAT GCAGCAGAAG TTGTGGACCT TACCGTTGAT GAAGATGGTA AATTGAAGTA GTAACAGTAG  
AAAATATGA AAGGAGTTT ATAAAAGGAA ATCTCTTAAT ATCTAGAAA CTCCTCTGCT TTAAGGTAA TATATTAT

SEQ ID NO:525: (Length of Sequence = 168 Nucleotides)

CCAATGAGTG TGGACCTTAA ATTTAAACAG CTAAAGCTAT AGTCTAAGGA CAGTCTCAA TAAATACCTT TGAATGTCA  
TATGGTGCCC AGGAGGGTCT TGIGGAAAGG GTTTCATGGT AGTGAAAGAT GTAATANTC TTTTTCCTT TTAACCTAA  
GCCTGTCC

SEQ ID NO:526: (Length of Sequence = 387 Nucleotides)

GGAGGTCACA CGGTGAAACA GACACAGTTA TATACAACAG GGCAGGTTTT TAAAAAGAGT TGCTCTCAGA CGCATTTTTT  
CTGCTCCCTA AAAAGCCGAG GAAGATACTG GNTCCACAGA AAGAAAAGGC AATGCCGTAA CATGAGGCC TCATGGCCGC  
ACCGTCCAGG GGAAGGGCTG TTAAAAACAC AAGTATTTT GTGAAATACT TCGATCTGAG CATTAAGGCA GGTCTGCAGG  
AGATCCGTCC TGGGGACTCG GACAGCAACG CTACCGGCTC CGAGAGGACA GTTAAATGTC GCCTCCCGGC AAGAGGGGCG  
GAGAGATCAG ACAAGGAGTT GTTCCTGAGT TNAACCTGC TACAACAGCA AACTCCAATA AACTCAA

SEQ ID NO:527: (Length of Sequence = 336 Nucleotides)

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TTTGCACTTT TACATTCCCC TAGTACATCC CTGCTTACTC GGGAGCACAA AGCTTGGTTG TAAGAAATTG TGATTGGAA  
GTAGAGAAAA GCAAGGAAGT CCAACCTCAG GAGTGTCTCT GTTACTAAGA GGAGAGTGAG ATCCAGGGTG TGGGAGATGA  
TCTGAAGGTC TATGGGTGGG GAGTGCCACA GGAAGAAGGG TTCTGGTCCG AGTTAAAGGA GGATATATCT ATATNCTGGG  
AGATGAGCTG AATTGAGAAC ACATGGAATG GGAACAATTC TCCCCATACT GCGTTAAGC CAAATTAGGC TGGCATCCCC  
CACCACGGCC AACTAA

SEQ ID NO:528: (Length of Sequence = 482 Nucleotides)

TTTTACTCTA GCGTGAGGAG GGGGCTCCT AAGGAAAGTC ATGCTGGGTA AACTGTGCGA TGTTACAGAG CACATTGAGT  
CTGTGGTCAT CGTGGTCTTT CTATCTTCAC TGTACCTGT ATCCTGTTAC ACATACTCAG TTCTTAATTG TAAGCTCAAT  
TTTGGTATTA GCAAAGCAT CTGTCACTTT TTCTCAATT ACTCACACCT CTTCTTGCCT AAATAAAACA AAGAAACAAA  
GAAAACAAGT GTGGTGTCT TACACGTCTC GGGAGTTCT CGTCACTGAC TTTATATATA TANAANAAAG AATGCACATG  
CGGGCCACGT TCACAGATAG ACAGATTAC CCGAAATTGA GGAATAGGG GCCTTAAAGG CTGCCGANA NCAAAATGGG  
GTGGAAATTA GCAANCGTTG TTTTCGGTC AATTNCCAAT TGTGCACTGG CTGCGTTGAG ACAAGNCCAT CTTCCAATTT  
CC

SEQ ID NO:529: (Length of Sequence = 412 Nucleotides)

CTCTCAGACA GTATCCTCCT CGAAGCAGGA ATCCTAGTAA ATCTCATCTG CGGCATGCGA TTCCTAGTGC AGAGAGGGGA  
CCTGGGTTAT TAGAAAGTCC TTCAATATTT AACTTCACTG CAGATCGATT AATTAAATGGT GTCCGGAGTC CACAAACAAG  
GCAAGCAGGT CAACTAGAA CACGGATTCA AAACCTTCA GCATATGCCA AGAGAGAGGC TGGGCTGGG CGTGTGGAGC  
CAGGCAGTCT CGAATCCTCT CCTGGTTAG GGAGGGGAAG GAAGAATTCC TTTGGCTACC GGAAGAAAAG GGAGGAGAAG  
TTTACAAGCA GCCAGACACA GTCTINCAAC GNCACCAAG CCTCCGTCCG CAAGCTTTCG AGCTGGGGGC TTTTCCAGCT  
TTCCCTCCAT TA

SEQ ID NO:530: (Length of Sequence = 301 Nucleotides)

ACTTTTAAAT AATAGTCATT TAAAGTGGT GAGATAATAT CTCATTGTTG TTTTNAATTG CATTTCTCTG ATGCTTAGTG  
GTGTGAGCA TTTGNCATA TAACINCTGG CCATTGTGAT GTCTTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT  
CACTTTGTCA CCCAGGCTGG AGTGAGTGG CGCAATCTTG GCTTACTGCA ACCTCCACTT TCTGGGTTCA AGTGATTCTC  
CTGCCTCAGC CTCCAAGTA GCTGGGATTA CAGGNGCCA CCACCAGCC CAGCTAATTT T

SEQ ID NO:531: (Length of Sequence = 312 Nucleotides)

CAGATGAGAC CAGGCTTGA CAGTGGGGC AAGTCTTACC AACCTGCACA GCACATCCAG CAGGCAACT GTGGCTCAGC  
AGGTGCCAAA TGGAGCCCAT GGGCAGAAGA TGCCACAGC GTTCAGATG TGTGTGGTCT GAGAGATAAA AGGACACAGA  
ACAAGATGAC TGTGCAATA GCCAAGTGGT GGCAGAAGTT CTGCATTTC AAGAGATGAT CCACTCAATA ATTTGACGAT  
ACTAGTTGGC CAACATGCTC AGAGAAAACA GNTTATCCA CATCTGGAGC CTCATTCTCT CTCAGGATCA TT

SEQ ID NO:532: (Length of Sequence = 313 Nucleotides)

GCACAACCTCT CGACCTTTGG GAGCAGCCAG GGAGGAGTCA CTGTCCAGC CCCCTGGCCT AGGCACAAAG GGGTGGGAGA  
GACAGCTGGG CCAATATGGT CTATTACGC CTGAAACCC GCGAACCAC CCTTAACTCT GCCTTCAGGC ATATCCCCC  
ACGTCCATGT CCAGGAGCCC CCTACTGTC CTGGTCATCT GTGGCCCGG GAATAATGGA GGAGATGGTC TGGTCTGTGC  
TCGACACCTC AAACCTTTG TGAGTATGTG GGGAGGGGCT GTGGGGGAGG AGGGCGTINAG GGCTCTGGGA TCT

SEQ ID NO:533: (Length of Sequence = 378 Nucleotides)

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GTAATTCAT GTGGCTGACT GGGTAACAGA TTTGAAGGGT ATCAGAGACC TTCATGTTGT AGCTCATCGC AGTGTATTGT  
TTGTTGCTTG TCTCTGCTC CCGTTGTATT GCCATCTCA AGGGCAAGA CTGCATCTTT GTATTCCCAG CTCCTAGGCC  
TGAGTCAGGC ACATAGTAGG AATTCAGAAA GTATGTTTTG GATGTAACAT TCCTCCTTTT TCCTGGACAA AATGGCCTTT  
TGTCGGTGC ATTGTCCTTT CCATAGAGGA GGGGTGGGG CAGGATGTIN AGATGACTGT GTTGAATCT TCAGTAGCT  
AAGACAAGGA TACGTNTTT CCATGGTGCA AATCTAAAGG GTCTAGTGA GGTGGTTC

SEQ ID NO:534: (Length of Sequence = 374 Nucleotides)

TTTTTTTTT GTCCAAGTT TATCAAATTA ATTGATTTTG GGGGGCAAGA TAAAAATTT NATTTGATTA ACTTCTCTA  
TTGGTTTTTG TTTCAATTT CATTTATTC TTCTTTATC TTTATAATGT NCTTACATCT GCTTGGTTTG GGCTGGGCAC  
AGGGCTCAT GCGTGTATC CCACTACTTT GGGAGGCCAA GGTGGGCAGA TCACTTGAGA CCAGGAGTTT GAGACCAGCC  
TGGCCAACAT GGGGAAACCC CGTCTCTGCT AGAAATATAG AAATTGGCCA GGTGTGGTGG CCAGCACCTG TGATCTAGC  
TACTCGAGAG GCTGAGGCAG GAGAATGGCG TGAACCCGGG AGGGCAGAGC TTGC

SEQ ID NO:535: (Length of Sequence = 433 Nucleotides)

TGCGACTGA TTCCAAGTCC CCAGGAGGGC TGTGAATGCT AATAGATATT TGGGGTTTAT CTACATGGAT AAATCAGAAT  
TGTTAACATT ATTTATAAAG ATAATACTTA CATAATTTIN AAATTCACAA AGATTGTTTG GCTAATGAT TTCTAAATGT  
ATGCAATATA ACATTAGGCG GCTTTTATTA ATTCTATTTA TGTAAATGAA AAGCTCAATT CAGCAAAAAA CAGATCTGAT  
GGGATTGGT TATTCTCTAC CTGATCAGAA CAAAGCCTTA CTTTACATTC CTGACTACCG ATTGGCTGAG GGATTGTCTA  
ATAGAATGGA GCTTCTTTT GAGCGGTATC CATGTGTACA AAATTGGGCT GCTTTACCTG TGACCCACGG ATTGCTGGAG  
GAGCTTGA ATGTAGTCAG CCGTTTCTTT TGG

SEQ ID NO:536: (Length of Sequence = 438 Nucleotides)

GATGAATTAA GAGGGAATTT TATAAGTAA AATCTTTAGC GCTGTTGATC AAAGAGTCC AGGCCGGGCG TGGTGGCTCA  
TGCCTGTAAT CCCAGCACTT TGGGAGGCTG AGGTGGGCAG ATCAGGAGGT CAGGAGATCA AGACCATCCT AACACGGTGA  
AACCCCATCT CTACTAAAAA TACAAAAAAT TAGCCGGGCA TGGTGGCAGG TGCCGTGAGT CCCAGCTATT TGGGAGGCTG  
AGGCAGAAGA GGAATTCTTG CAGCCCGGGG GATCCACTAG TTCTAGAGCG GCCGCCACCG CGGTGGAGC TCCAGCTTTT  
TTGTTCCCTT TAGTGAGGT TAATTCGAG CTTGGCGTAA ATCATGGGTC ATAGCTGTTT TCCTGTGTGA AATTGTTATC  
CGNTCACAAT TCCACACAAC ATACGAGCCG GAAAGCAT

SEQ ID NO:537: (Length of Sequence = 316 Nucleotides)

TAGTAGCACT AAAGCCCCGT TTGGTCACA CTCTCACTA GGAGAGAAC TGACCAAAAA TGTGAATTA TTAAACAAAA  
TGATGGGAAG CCAATGTTCT GAACTGAGC TCTTGCACTA GGCCCCACA GACCAAAATTA AAATGGAGTC ACTAGTGCTA  
AATGCTTTGG AGTCAAACAG AAATGTTAAA GAAGATAGAT CCCAAACAG AGCAGTGTIT TATTTTTCTC CAGAAAACAG  
GAGATCCAG CATAATAAGA AAGTCTCCTC TGTGTAAAC CTTACAAAAA AGTAACCTGA AGTAACCAT TTTTTT

SEQ ID NO:538: (Length of Sequence = 303 Nucleotides)

ATCTTCATGG GCGTCTAAC TGTAACAAAA ACCCCACAAT TTGAACAGAA GAACAGAAGT ATCTGGTTAC AGAAGTGCAT  
TCATACATTT CACAAATGTT TCAGTATCCT CTCTCCCCG ACCCCAGCAT GAGCTTTAAT TGGATGTATT TATTCTTTCA  
CCAGCATGCC CATGAAGNG CTAAGGAAAA CATTACCAA GTCTGTTTCA AAATCTGTCC TTGGCATATC AAACTTTTTC  
TCTTCCTTTT TCATGCTTTT TTTTAAAAA AAAACAGGA GAAAGCGAAT AGAGAGGAAA GAG

SEQ ID NO:539: (Length of Sequence = 362 Nucleotides)

197

CATGTCATAG TGGCCTGCTC TCCTAACACA GCACAATTTA GGGCATATTT TCATGATGGT CTATCACTGG ATTACAACAC  
 ATCTCTTCAT TAAAGTCTTG GGAAAGAGGC TTCAACTTIN CTGTGTGAG AAAACTTCAC AGGTGTGTAA AGTTTGATCA  
 GTATGTATAA TATATTINAT TACATATATT TNAATTTINAT TTTTCATTTT TTTCATACA TAGCAGGTGT ATATACITAT  
 GGGTTATATG AGATATTTTG ATAAAGGCAT GCAATGTGTA ATAATCACAT CAGGGTAAAT GCAGTATCTA TCCATCACCC  
 CAAGCAITTA TCCTTTGIGT TACATACAGT CCAATTACAC TC

SEQ ID NO:540: (Length of Sequence = 416 Nucleotides)

CACCAGGGAG AACCAATACA ACAGAAAAA AGCAGAGAAC AGCTATGTGT CTGCCAGGT CTACCAAGA TAGTCATCCA  
 AACATGAACA GATGAGAAGG CTGTTTTTCA AGAAGGTGAA AGTGACAGAN TATTCAATGA ATCTGAACAC ATGAAGATAC  
 TGAGACACCA GTAGTTCAGC AATAAGTGA GAGAAACTA AGCAAATGAG AAACCTAGGA ACAATTATGC AGCAAAGAAC  
 AACTGGATAA GCTGAAAAGT GTTTAAAGAT GCTGCCGTAA ACACTAAGTA TCACAATCAA ATTCTGATTT GTAAAAATAG  
 AGGTATGGGA AGGTACANG TATGTTGTG GGGCAAAATG GTGAGGAGAG CTTAAACCCCT CTTCTTCCIT AATGAGGAAT  
 TAAATAATCC CATTAA

SEQ ID NO:541: (Length of Sequence = 341 Nucleotides)

GAAATACTTC CAGGCCCTCG AAAGGCCATC CTTGGACAC ATGTAAAAAG CTGTCTTGT GGGCCGTTAT TCCCACTGAC  
 CGTCTGAGT GATCACCAG GAGCGGGCG GCAGCAAGCA GAGCTACCG GATTGGGAC AAGGATTTA AAGGCAGCTA  
 CAAAGCTGAG CTCTATTGTC TGATGATAGT CTCTGTCAG CTGTTTAAA TGACTGTCTG ACTCACCATG GFAATTTTNC  
 ACAAAITAAA AACACATTTT GGGTTGTGCA ACAGTGGTTC TCATCTTTCC AGGCAGGCAG ATTATTTTAA TGCTGTTTAT  
 ACAGGGAATT GGGACTCTCG G

SEQ ID NO:542: (Length of Sequence = 334 Nucleotides)

TTGTGTTTC CTACCTTAAC CAATACCTCC TGGAAAAAG AGGTATGTGT ATAAAAATA ACCATACCCA AACATTCCCA  
 CAACATGACC TTAATAAGCT GGTGCACAGT AGATTATGGC AGAGGAAAGA AAATTGACTT TAGAATTAGA GAAACTTAGG  
 TTCAAATCTC AGCTCTGTC TGCTTTGGTT GACCTTCAGT AAGTCCATT TNCITCATCT GTAAAATGGG AATAACATCT  
 ACTCCACAGC ATCATTAGAA AGATTAAATA GTGGCTGGC ATGGTGGCTC ATGNCITGTA TCCAGCACT TTTGGGGAGG  
 CTGAGGTGGG GCGG

SEQ ID NO:543: (Length of Sequence = 350 Nucleotides)

ATTTGTTTGC AATTGACAAC ACCTCATTAA TTGTAAGCCC AGTGACACTG CTGTCTGTTT CAAGTCACTT TTAAATTACA  
 CACGTGCTAC TTAATCTTAA AAGCAAAATT AAACATTGGA CTGGTTTACA TTTCAGCTA CAATATGGAA CCATTGTATT  
 TGGAGGAATG AGTTAATAT GCATTGTAAA ATAAAAATAG GGGGTACTTT GCATTACAG CGGCTTATGT AATTAGGTTC  
 AGTCAACTGT AATGTTTCAG GTTAATGTCT TCCATGGATG TATGCTGTGT AAATAGTGAA CTTACATATC CTTAATACA  
 TCTGAATTAT TACATAAATC CTTAATATTA

SEQ ID NO:544: (Length of Sequence = 328 Nucleotides)

GGGAGACGAG AACTCTTGAG ATCGGGGTC ACCTGTNAGT CGCTGGACCC AAGGGGAAG CGTCTTGATT CCTGGAGGAA  
 ATCTCCGAAG TGATGTGTAA CCTGTGTGT CGCTGCACT TCGGCGCAA CTGCCCTTGG TTCAGTCCCC TGTTCTGTGA  
 GGAGGCGGGG ATCATGTAA AGTGGAGCAC ATCGCTCCG GCTTGGACGC CTTNACCTT TAAGTGTTC TGATTTAGTT  
 TGCTTTGGG TCTACCAAGA ATTCTAGTCA GTTAACTAGC TTTTAAAGCC AGGTTCCTGA ATTTGGTAGG CATGGACACT  
 CCCAGTAG

SEQ ID NO:545: (Length of Sequence = 342 Nucleotides)

GGGCTATTAC CTCTGGGCAC TGGGAAACT GGGAGACGG ACAAGGGGTG ACCAATTTT CAGTGTATGC CCTTTTCGAA  
GTGTTAAACT TTTTTTTTT TTTTTCAGA CAGGNTCTCA CTCTGTGGC CTGCTGGAGT GCAATGGTGA GATCGTAACT  
CACTAAAGCC TCAACTTCCT CGGCTCAAGC AATCCTCTCA CCTCAGCCTC CTGAGAAGCT GGGACTACAA GTNTGTGCCA  
CCATACCTGG NTAATNTITA AAGTTTTTGT AAAGATGGG GTTTTCCGAT GTTGGCCAAG CTAGTCTCAA ACTNCTGGGC  
TCAAGTGATT TGCCACCTT GG

SEQ ID NO:546: (Length of Sequence = 280 Nucleotides)

CTGTAAATGC CAGCATTITG GGAGGCTTGA GGCGGAGAGN TCCCTTGAGC CGAGGAGTTC GAGATCAGCC TATGCAACAC  
AGTGAGACCC CTATNCTAT TTNATTTAA AAAAAAAGG AAGGGGGTC ACGTTTACTG CCACCATCCC AGGCAGAAAG  
ATGAAGCCTA GAGCCTCTCA CTGCTTCCCTA GTGGGTCTTG GGTGTGAATT TGCTGTCTTG GGTATATTTT TTGCAGAAA  
GCATCTGGCA TCAGGCACTG GTTCTCAAAG TCGGGCCCC

SEQ ID NO:547: (Length of Sequence = 298 Nucleotides)

CTAAGAGTT TCACATAGTG GCTCAGTCCA GCCTTGTGGG GATCTTGCCG GGGCTGGGG CCGGTGGTCC GGGGCTAGG  
GGGATGCCIN ACCAACAGAG GCTCINCAGG CTCTGAAGAT AAGCTGAGGG CAACAGTGA CAGAGGGGC TGAACCTGCC  
TCAAGGAGGC TCATTATCAA GAGCAAGTCT TGCTGGCTTC TNCTGAGGCT GGGGACCAG TGGCCCTTTG GCCAGCCAGG  
ACCAGCAGCN CTNACCACCT GCTGAGGGC AGTTTGGTTC AGGGGGGCA CATAGAGG

SEQ ID NO:548: (Length of Sequence = 311 Nucleotides)

GAGACAGGGC TGTTCCTGC ACTACACTGG TCATCTGACC ACTTTCTGC AATGCTAAGA AGGTATTTCT TGACCAACA  
GCAGTCCACA TACAAGTTTA AAAGGGGCC TGTATTATGA GGAACAACAC TGAGGTGGTG CGTAGCAGGT ACAAGACGCC  
CAAATATTT CAGTTTATCT TACGGCTGA CTCTTATCT CCACACTGT TTCTAAAGA AGGTCCACAT TATTTTGGT  
ACTAGCCTAG TTTAAGTGA GATACTGTGG CAACTTNA AGAAATGACA TCAGGCACAC AGGCTGAGCT T

SEQ ID NO:549: (Length of Sequence = 387 Nucleotides)

TTTATTTTGG TGTAAGACA GGAAGCTGA AAATACACTG TATTTAAAT TTNCTTGGTT CCCCCACACA TTGTGGAAC  
CCCTCCCC CAGAGCTAAT CTGTTCAAAC TCAATACTT AAAAATTACA GCAGCCAAAC AAAAGCATGG GGGAAAAA  
AACAAAACA AAAACCAGAT GGAGAAGTA GCCTGGGCCA GTAGTGTAC TTGGTGTGA CGACTGAGGT GCTGAACAGG  
AGCTTCGTG TCTGTTTTT TCTTTCTTT CCTCCTTCT CTTCAGAGAG GGGATCTNGA AGTAGCTGGG TGTGTCCAGT  
TTCATGAAG CTGCTCAAT AGCTGGCTG AAGGAATTTT GAAACTNGG CACAGGAACA CCGGTTT

SEQ ID NO:550: (Length of Sequence = 377 Nucleotides)

CACCCCAAC TCTTACCAA GTAGGGGCC TGGCTTGCA TTGCAGAAGA GCTTTCCAT CCTGGGTGA GCATACCTAC  
TGGTAGTGGC TCCGTGATT CCTGGGGAGG GGCTCCAGA GGTAAACCAAC CAACCTGTG CTACTGCTAT GACCACAGTT  
CTGCTTCTGC TGCCCTCAA CTGGGAAGA AACAAAGAGC CTGAGGGCTT TACTACGCT TCTAGCACTA CGCAGTCACC  
ATATAAGAG GAGCCAGTC TCTCTCCTT GTGAACCTT GACCCCAAC TCTTACCAA GTGGGGCCCC CAGCTTGGGC  
CAGCAGACA GTGGCCCAA CCCTAGGCT GAACATCCA GTAGCAGCTG CTCGCG

SEQ ID NO:551: (Length of Sequence = 320 Nucleotides)

GAGTTTNGG TGAGCCGAGA TCACGCCATT GCACTCCAGC CTGAGCAATC AGAACGGTCC GGCTCCTGTT GCTGAGGAAG  
CAGCTCTGGA TGACCTTCAT GATGAAATTT GCAGCTCGC GCTCAGTCAT GTTGGGGCTA AACCTGTGCC TGGAGGAGAG

GCTGTGTGAG GGCTGCCATG GGCAGGGCCG TGCTGGCTCC CTGGCCAGT GGGAGGAGG TCTTCCATGG GGACGGACTT  
CAGCTGAGAG CCATGCCCTG GGAAATGTAC CTTTGGGGTC CACATGTGG AAGATGGGGT GCTGTGAAGG CCACACC

SEQ ID NO:552: (Length of Sequence = 334 Nucleotides)

ACAACTGAC AAGAGAAAAC AAAGAATTCT TTGGTGATCT GGACACGCTG ATGGGGCCCTC TGACCCAGCA CAGCAGCATG  
ACCAATCTTG TCCGCTACGT TCGCCAAGGA CTGINTGGC TGCGCATCGA TGCCCACTG TTGTAGTGGG TGTTCTCAGA  
TCTCTAGCAT CACGACCAT CACTCTACCT CTACCAGCGC ACTGATGGTC ACTGGTGGAA CTCCACTCAC TGGGGAACGT  
TCTCTTTGGT TATGTTTGT TTTATGCTTC TTTTGTATC TGTA AAAAAC AGAAGTCATT GTAAGTTGAC ACTACAACCT  
AAGGGCAGTG TACG

SEQ ID NO:553: (Length of Sequence = 371 Nucleotides)

GAAAAGGGGA AAAATCACA TATGTGTTCT AGACAATATT GGTITAGATT TTTTAAAGAT CTAAAATTCA ATTATGGAAA  
GCCAGCAGCC TGATCCAGTT ACTGTGACTA AAGCAATGT CAGACCATCT CTAGTCAACC CCTATGGGT TTGCAATGT  
GTCTACCCCA ATTTTGGATC AGGAGGGGTC AAACAGAAAT ACAGCAATGT GATTAACTG CTCTTTTGA AACAAATATGA  
AAAGGTTTGT NCTTTCAAAG TAGATTCTAA CAAATCGTCT GCTCACTGTG GGGTAGCAAA GNGAGAAAAG CAAATCTTTC  
TATTAGTCTC AAGCAAGTCT TCAGATTAC ACACAATCTA ATGGAGGCAT C

SEQ ID NO:554: (Length of Sequence = 331 Nucleotides)

TTATGACTTT TTTCAATAAG GCTATTGTAT CAGCCTGTC TCTCGCTGCT AATAACGACA TACCCAGAC TGGGTAATTT  
ATAAAGGAAA GAGGTTTAT GGAATCACAG TTCCACATGG CTGGGGAGGT CTCACAATCA TGGCGGGAGG CAAAGGAGAA  
GCAGATCAC ATCTTACATG GCAGTAGGCA AGAAGAGCAT GTGCAGGGGA ACTCCCTTT ATAAAACCAT CAGATCTAGT  
GAGATTATT CACTATCAAT GAGAGGCAGC ATGGGAAAAA CCTGCCCTC ATGATTCAAT TACTTCCAT TAGGTCCCTN  
CCACAATACA T

SEQ ID NO:555: (Length of Sequence = 305 Nucleotides)

GCTGGGACTA CAGGCGCCCG CCACCACGCC CGGCTAATTT TTGTATTTT TAGTAGAGAT GGGGTTTAC CATGTTGGCC  
AGGATGGTCT CGATTTCCTG ACCTCATGAT CTGCGCGCT CGACCTCCCA AAGTGCTGGG ATTACAGGCG TGAGCACCGC  
GCCAGCCCA ACACATGGTA TTTTCTGCA TTTTCAATTA GTCTTCTGGT TGCTGTGTA TGGTCTCAGG CTTTATTAC  
ATTTCTCGA TTAATAACAG ACTGAACAT TTCAGCACAC TTTTAGGTT ATTGAATAAC CCTA

SEQ ID NO:556: (Length of Sequence = 318 Nucleotides)

CTTTTGGT GATTNCTAAG CTCGTTTIN CTATCTAT ATATATATGT GGTGGTTT NATTTTAGGA TTTAAGGTT  
ATCCCTAATA AATTTGAGA TGTGTTCCAT AGCTAGCTG TTGAGATCTT TTNATATCA AAGTTAATAT CTGTGGATT  
NTAATCATTC TTTCTACATA TTTAACAAG TCATTAGCAA AATATTGAAC AAAACCTGTT ATTCATATCC TTAGATACAG  
AACATCAATA TCCTGAGATA CAGTACATCA TCAAAATGTG GTCCCAAT GNGCAGCAAT TAGCATCATG TGGGAGCT

SEQ ID NO:557: (Length of Sequence = 349 Nucleotides)

GGAAGCAATG TGCTTCTTCT TAACAGAGAT ACTGCACTAT TCTCTATGTA TACTCACTG ATGGCATGGT ACATGTCTC  
CAGGATGCT TGCTCAAAGT CCTGCTCC ATTCACACT TTCAGATTTT TGGGAACTC CTAGAGACAG GCCAGTAAGT  
TTTTTCCCT TGTGCAACA CTGAAGCCC ACCTAAGGAA CTCTGGGT TTCAGTAAAT AGGACTTAGG AAAAGGTAAG  
CGAAAAACC CACTTCCCA CCCAGTCCC TTTCTAGGT TGGGCCAGC CCTTCTGA TTCCCTTGA CAGAACCCCA  
TCCATCATGC CCACTGGAAT CCTATGTC

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SEQ ID NO:558: (Length of Sequence = 279 Nucleotides)

GGGCCAGGCG CTGTGGCTCA CGCCTGTAAT CCTAGCACIT TGGGAGGCCA AGGTGGGCAG ATCACCTGAG ATCAGGAGTT  
CAAGACCAGC CTGGCCATGT TGAAACCCCA TCTTTACTTG TAATACAAA ATTAGCTGGG CGTGGTGGTG TGCGCCTATA  
ATCCCAGCTG CTGGGGAGGC TGAGACAGGA GAACCTCTTG AACCCGGGAG GCAGAGGTTN CAGTGAGCCA AGACTGCACC  
ACTGCATTC AGCCTGGGCG ACAGAGTGAA ACTGTGTCT

SEQ ID NO:559: (Length of Sequence = 278 Nucleotides)

GAGAAAGCCA AGAGCCATCT GGAGGTGCCG CTGGAGGAGA ACGTGAACCG CCGCNTGCTG GAGGAGGGCA GCGTGGAGGC  
GCGCACCATC GAGGACGCCA TTGCAGTGCT CAGCGTGGCG GAGGAGGGCG CCGACCGGCA CCCAGAAAGA CGCATGCGGG  
CAGCCTTCAC AGCCTTINAG GAAGCCAGC TGCCGCGGCT CAAACAAGAG AACCCCAACA TGCGGCTNTC GCAGCTGAAA  
CAGCTCTTCA AGAAGGAGTG GCTCCGCTCT CCTGACAA

SEQ ID NO:560: (Length of Sequence = 304 Nucleotides)

CAAATGTTAT TGAAGTTAT CTAGAAGGCT CAGTAACCAG AACTTCCTTT CATCTGCTT TTCTTTTCT TTTTTTTTTT  
CTTCTGAGAC AGTCTGGCTC TGTCTCCAG GCTGGAGTGC AATGGTGTAA TCTCAGCTCA TTGCAACCTC TGCTGCCCGG  
GTTTGTGCAA TTCTCCTGCC TCAGCCTCCC GAGTAGCGGG ATTACAGGCA CGTGCCACCA CACCTGGCTA ATTTTTTTTT  
TTTTTTTTTT TGTATTTTT AGTAGAGCCG GGGTTTTAC CATGTTGGCC AGGCTAGTTT CAAA

SEQ ID NO:561: (Length of Sequence = 323 Nucleotides)

GATGGTAAAC ATAAACCCAA ATATATCTGT AATTACATTA AGTGCAAGTG AACCAAAACA GTTCAGATAA AAGACAGTAC  
CTATTTTATA GCATTATGAC TATCATGAGG TAATATATGT AGAGATTAGA GTACACATGT CATATTAGGA GGTGTGCAAT  
AAATGATACT TTATTCTGAA GATTAAACATA ATTCATACCT AAAAGGATCA AGAACTAGAA TATTAAAAAA NTAGAAATGTG  
AATGTTCTG CAAGTTTGA TAAGAACAG CCCATAAAT AATCTCTAAT TTGCTACATT TAGGGAATAT GGGTAATGAC  
TAC

SEQ ID NO:562: (Length of Sequence = 214 Nucleotides)

TCTAATNAGG CCTGCGTGC TGTGTCATCC CATGCCGGAA GAAGGAAGGG CAAGAGTGGG TGAGATTGTN AGCACGAGAG  
AAGGCTGAAC TTCATATTTT AACAAACCCAC TTTTCATGAT AINATAATCT TCGCAITAT TTTTTTCGGT CTCTTCATGT  
NCTCTAATTT TTCTCTGGN TTTTGGTCTT TTGCTCTTC ATTTTITAGAA GCTC

SEQ ID NO:563: (Length of Sequence = 358 Nucleotides)

TTTTTTTTGT GAGAAACAGA AGCTGAATAT OCTGATTGA TTGCCCACAC AGGCGTTCAA TGGCTTAGCA GTGCTAAAGA  
TFTATTTTTA TTTTTTTGGG CTCTGGGCTG ACATTGGAAA TTTTNCITGAA TGAGAAAAAC CATCCTCAAC CACTGTTTTT  
TAACACTGAG TAACTTTGA AATTAACTTT TGCCACAGAC TTGAAAATGT TTCTTAATGA ATTTGACCTG AAATTACAAG  
GTACAACAAC ATAATATGGT AAATTCATTT CAATAAAAAC TAAACTTAA GATTGTCAAG CTGCTTTATA TACTTNCITG  
GCTATGAGAA GTCAAAACAG CGCTGTATTG CCAAATCC

SEQ ID NO:564: (Length of Sequence = 405 Nucleotides)

ATGTACTGTG TGTTTCATAC ACATGTTTCC TTTAGICTTA AAATCTGGCT CATGGGGTAA AACTATTAT AATCTCCATC  
CTCCAGATGA GGAAAGTGAG ACTTAGAGGT TAAGTACAIT TTAGGATATA GTAGGGTATT TCGATAAATG TTTCAAATGT  
GTTTCTGGTC TCTGAGGACT AACTCCAG GCTGCTGGG ATACAAAATA CCCTTTCTTT ACCATAGGAG CACTTGGGTA  
GAATATTTGC AGAAACAATA AACTGGCTGA TATTTAAAGT TCTCTTCAGC TCTGACATTC TATAATTTCA TTGACCTCT

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TTGCATTAA TTATGTTGAT TTTCCTTTCT ACCCCTTGCT TAGCTAAAAA TATACCCCTT CTNIGTCCAT GGACAGGAGG  
ATGGG

SEQ ID NO:565: (Length of Sequence = 196 Nucleotides)

CATCCACATC AGGCAAAGGC AAAGCAGGAC CTGAACCTCC CACCCCAAGC CCTACATCCA TGCAAGCCAG ACCAGACTGG  
GTCAGAGGCT AGAAGGGNGC TCACAGGNTT GCGTGGGGAA GCCTGGGCC AAAACCTGGC CCTNGCTCCA GCCCAGAGNA  
CCCACCTGGG CATNAGACTT GCGGCAGCGT AGGGGT

SEQ ID NO:566: (Length of Sequence = 275 Nucleotides)

TTGGAAAAA GAGAAAAA AATTCCTGCTT CATTACGAA TGTGCCAAA GGAGGCAAGT TTTCAACTGA AAACAAAACA  
TAAAGGTCTA TGTGGATGCA GCCAAATGTT TCTCCATTTA GAAATCATC ATAAAAGGTG GCAGCACTTT TTTTGCTTGT  
TAACTATATT ACITATAACT GGCTGCACCA ACATTTCATC TCAATTTTGT GAGTGTCTCT TCTGATCAAT CCTAAAAGCA  
ACACAATCAT TTTAGAGGTT GCAGACTACA ACAGC

SEQ ID NO:567: (Length of Sequence = 349 Nucleotides)

CGCTCGINTG TCCCACACAA ATGTTTAAGA AGTCACTGCA ATGTACTCCC CGGCTCTGAT GAAAAGAAGC CCCTGGCACA  
AAAGATTCCA GTGCCCCGA AGAGGCTCCC TTCTCTCTGT GGGCTCTCCT AGAAAACCAG CGGGACGGCC TCCCTGCTGA  
TACCGTCTAT AACCTTAGGG GGNCTCGGG CAGGCAAACT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAATTC  
AATGCCACAC CTACTGGTTA CCCTTTGAGG GCATTTCTCC AGACAGAAGC CCCTTGAAGC CTAGGTAGGG CAGGATCAGA  
GATACAACCC GTGTTTGTCT CGAAGGGCT

SEQ ID NO:568: (Length of Sequence = 368 Nucleotides)

CTGGTAACCT CCCGATTGNN TTCCCCGCC TCANCCCTTT CCCAGGGCTA TTCTCTCCC ACCTGCTGCC AGGCCTTTCC  
CTGGCCATCC TGTGTTAAAT GTCATCCGCG CCTTACTGTT ATGTTCTCCA CAGCACTGA ACACGACCCA ACATGCCTTT  
TCACTTCAAG GTTTATTCTT CTATTAGTIT TCCAGAGTC TGCTTCCCTA GTGTCCATCT CCGCTGCTCG AATGCCCTTT  
GAGAGCCAGT GCTGTATTT TGGTCCINGT GGTATGGGCC TGGCACATAG TAGGCAGTCA GCAGATATTT ATGGAACAA  
CAAATGAATT TGTGTGACTA TAGTTCATTG TTCATAGTTC ATTCATAG

SEQ ID NO:569: (Length of Sequence = 328 Nucleotides)

TGTCACCTAA TGCACAGCTG GGGCTCAGGA CACAGCTTTG CACACCTTAA GINCTCAATA AATGCTAGCT CAGGGCAGAG  
CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATACCTTAA GTACTCAATA AATGCTAGCT  
CAGGGCAGAG CTTTGCATAC CCTAAGTGCT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATACCTTAA GTGCTCAATA  
AATGCTAGCT CAGGGCAGAG CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGGG ACAGAGCTTT GCATACCTTA  
AGGTGCTC

SEQ ID NO:570: (Length of Sequence = 313 Nucleotides)

CCCTAAAGG CAGAGTGTCT TCTTACCTCC ACACAACCAC GCTAGCTCTA TAGCAGTGGT TCTTAACCAG ATTGAAATGG  
CTGAAATGAC AGACATATAT TTCAGAACCT GGATGGGAAG AAAGCTCAAT GAGATAGAGG AGAAGGTGTA AACGCATCCA  
AGTAAAGCAG TAAATGATC CAAGAGTTGA AAGATGACTT AGCCATTTTA AGAAGAACC AAACAGAACT TCTGGAAATA  
AAAAAAATC ACTACAGGAA TTTCATAATG CAATTGGAAG CATAAATAAC AAAATAAACC AATCTGAGGG AAA

SEQ ID NO:571: (Length of Sequence = 338 Nucleotides)

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AGGAAAGCAG GGGTCTCAAT TCTGTACGAA AGAGGAGGGT GTTTTACTTC CTGGAATTAT AGAGGCCAGA GGTGTCTCTT  
TTTCAATTIA TTGGGAAGGT TTATTTTAAT ATGGACTTAG AAATAAATAA CTTATTAAAG TGAAGGTTCA CCTGGAGCCT  
TAGGCTGGCT GCTAAGTGTG AGTCTGGGCT GTTGAAGGGA CTGINCTGTT CINCTGGGTC TCTGTAGGAG TTTGAAGGAG  
AAGACTGGCC CCAAAGGGTG TTTGAACAGG TTAGATGTGC CCATTGGTGA GAACCTACTT GGATAGGGAG AAGGGNTCTA  
GGGCGTATCC ACAAACTT

SEQ ID NO:572: (Length of Sequence = 375 Nucleotides)

CTATTTCCAG AAGTGACAGC ACAAGTCTGA GTTGCTGTTT GGTCTGGTGA CCTCAGACAC ACTAATTTGA ATTGAAAGCT  
AAGAGTAAAA ATTINCTGGT TACAGGCGAG TCATACTCTT GCAAGTAGIT AGCAAAGGGA GGCCCAAATT CTCAGGTTG  
TTGATGGGGA ACTTGCCACT AAGAGAAGGC AGAGAGGTCC CTAGTGGGTA TATTINCTGC CAAGCCACTT GCCAAGAAG  
AGGAACCACA GAAAGAGAGA CATCATGACC NGGAGAAAAA TGTGACTAGA CATGCTAACC TCCAGTNTT TATATATGAC  
TTGAGTCTGC TGTAAITGGC AGCAGAAATC CAAAATTTGT ATGGGTAGAC CACAA

SEQ ID NO:573: (Length of Sequence = 396 Nucleotides)

GAATCCCCAA AGGAGAGGAG CTAACCTATG ACTATCAGTT TGATTTINAG GACGATCAGC ACAAGATCCC CTGCCACTGT  
GGAGCCTGGA ATGTGCGGAA ATGGATGAAC TAAGAAGCTT TGAGGCTACC AGGCAGGGGA GTCCCCCTAC CCACAANCTC  
TTCCCTGAAA GNAATINGAGG GGAAGAGAG GTAGCAGCCA GAGCCAGGAC CCAGGGTTGG GGCTGCCGGC TGACCCGGAG  
CCCTGGAGC AGGAGGCTGG GGCAGAGGGC CCTAGGCCAA GCCCACCCTG GGCACCAGGG ACAATCCTCT TCCCCACCAC  
CGGCCCTCAG GCTGGCATCT CTGCCCCAG CTTCCAGGAG GGGCCAGACA GAAGCAGCCA TTTGGCATCT CAGGTT

SEQ ID NO:574: (Length of Sequence = 373 Nucleotides)

CTAAACAGAT TTAACCTCT CCCAGCAATC CAGATTAAIT TAATATGCTT TCTTAACGGC ATTCCGCATT TINTCAITAA  
GCAATGAAC GTCCATCCT CTCTGATAAA TTAGGCAAA AAAATTCATA TGTTTAGGGC ATAGGGAAGG AGGAGTTGTT  
GGCTGTTAAA AAAAAGRAA AAAAAAGTA CCGCAATGG CGTTTCAAAG TCTAGACATC TTCATCATCA ACACAAACAT  
TCCTCTTAC AAAGGGACCT CAAGTAACCT TAGGCTGGAG GACCCACCTG CGTATGTTT TINTCTCATT CTTCTTTAC  
CTTCCCTCCA GGCCACCCAA CCCACATTCA GTGGCCCAAG TCACGTGGGG TTT

SEQ ID NO:575: (Length of Sequence = 431 Nucleotides)

GCCCCAATTA CTTCTTTGC TGCTACCACA ACAAGGTATA TTAGCCCTTG AAATTAAAGA TGTGCTGTC CCAGTTGTGC  
TTGTCTTAC CTAAATGCAT ACAGTCATAT TCCAAAAGAC TATATATTAG TGATATCTAT ATAGTTCACC CTTCATATAC  
ATGAGCTCCC GTGTGTGGAG TGAACATAAT GCAGATATAA AATATTTGGG AAAAAATTC ATGTGTACTG AACATGTATA  
GACTTTTTIN CTTGTTATCA TTCTCTAAAT AATACAGAAT AATAACCACT GTTTACATAG CATTACATT GGTTAGGTA  
TTATAAATAA TCTGTACATA AATTAACTG TACAGGAGAA TATGGCATAA GNCATATGIG GATACCACAC CATTTTATAT  
CAAGTACTTG AGGCCTCTGC AGATTGTGGT G

SEQ ID NO:576: (Length of Sequence = 410 Nucleotides)

GATGCAAACA GCCCCAAGGA GGGAGGTGGA AAGGCCAAGG GGCTTGCCCT CCTGCAAGG CGCCTGTAAA CAAGTCCCCG  
TGGGGTTTTG GGAGGTGCGC CCACATCTAA GACTGTGCGC CCTGCACTCC CTCTGGATGG CTTGCCGAAT TTGGTCTTCG  
CTGATACCA ATTCTGGAAG GGTGGAGAGA CAGTTGGCTG GACAGCTGCC TGATTGGCC ATGACCCCTC ACGGGTGTCT  
GTGGGCCAAC ACCAAACGCC AGCCTGCTCT GCTGGCAGGG CTTCTACCTG CACAGTCCCT AGGGCTGCAA GAGCAAATGG  
GGACCTGGC TNCCTGCTCT TNCAGGGCC TTGGTCAATG ACATACCAC TTTCTTAGGA CAGCGTCTTG GGGAGCTACC  
GGAACTTTCG

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SEQ ID NO:577: (Length of Sequence = 405 Nucleotides)

GAATGAAAT GGCATATTG AACATAAACT TAGGGCAGAT TTTTACTACT TTTGAAAAA TGTGGA AAA TATTCTGTA  
TGAAACGTAA AACAACTTTT AATTTTTTTT AGAAGTTGAG AGGATTCTAT TTTGCAAAGC TGTATTATGA AGCTAAAGAA  
TATGATCTTG CTAAAAAGTA AGTACAAACT GTAACATGTA TTCITTTTTT AAAATCAATG CCTTINCTCA TTINCTTCTT  
TGAAATAGGT AAAAATATGT CCTTAGTAGT TCTTCTAAG TGTATTCTGG AATAAGGGAT TTATCACTCA GACTGATGCT  
AAGGACCAGC CTAGATTCCA TTGAGATTGA AACCGTAATT AGTGTITTTCT GCATGCTGCT GCTTTATACC AAGGGCAAGA  
AATTG

SEQ ID NO:578: (Length of Sequence = 406 Nucleotides)

CGCTACAGGG GGGCCCTGAG GCACTGCAGA AAGTGGGCT GAGCCTCGAG GATGACGGTG CTGCAGGAAC CGTCCAGGC  
TGCTATATGG CAAGCACTAA ACCACTATGC TTACCGAGAT GCGGTTTTCC TCGCAGAACG CCTTTATGCA GAAGTACACT  
CAGAAGAAGC CTGTGTTTTA CTGGCAACCT GTTATTACCG CTCAGGAAAG GCATATAAAG CATATAGACT CTTGAAAGGA  
CACAGITGTA CTACACCGCA ATGCAAAATAC CTGCTTGCAA AATGTTGTGT TGATCTCAGC AAGCTTCAG AAGGGGAACA  
AATCTTATCT GGTGGAGTGT TTAATAAGCA GAAAAGCCAT GATGATATTG TTACTGAGTT TGGTGATTCA GCTTGCTTTA  
CTCTTT

SEQ ID NO:579: (Length of Sequence = 374 Nucleotides)

GTGGGCCCTG CTGAGAGTCC ACATTCGTAA ATATTATGCT GCAGTAAATA TTAATCTGA GAACTAGGTG ATATGGTTTG  
GCTGTGGCCC ACTCAAATCT CATCTTGAAT TGTAGTTCCC ATAATCCCCA CATATCATGG GAGTAACCTG ATGGGAGGAA  
ACTGAATCAT AGGGCAGTAA TTCTATGCT GTCCCATAA TAGTGAGTTT TCACTATATC TGCTGTTTTT ATAAGGGGCT  
TTCGCCCCIN CCTGTGCTCT GCATTTCTCT TTCGGCCAT TATGAGAGGA AGGACATGTT TGCTTCCCT TCTGCCATGA  
TTGTAAGTTT CCTGAGGCCT CTGAGCCAT GCTGAAGTGT GGAATTTAAT TAAA

SEQ ID NO:580: (Length of Sequence = 396 Nucleotides)

CAGAATAAAC ATTTACTATT AGGAGAGTCA AATCATTTAT TTTACATGA AAGAGATTAA GTAAAGCAGA ATCTTTGATG  
GTCTGCTGTG AATCTTCCG AGTGATTGAG AAATTTCTGA AAACCACTTC CAAATCAATT ATAATATTAA GTAAACTTTG  
GCTTTAGGAG TAAGAGAGAG AAGGTCTGCG TCCATGTTGG GAAAGAATAG ATATGCCAC AATAATTAGT CTAATTAATTG  
TTTGAAAAGG GTGATTTTCT CGTCATTCA AAGTATTAG CAATAAGGA CATATTGAGT ATGTAATTCA TGGAAAANTA  
AGNAACITCT TACAGTATGA TTCTAAAGG ATTATGGATG CCATTATCCA TTTTGGAGTT GGTATTGAAG CTTATC

SEQ ID NO:581: (Length of Sequence = 449 Nucleotides)

CTGCTCCGTG GCTGTTTCAA AGACTGGGCG AAAGGCTGTC CGGAGGGCAG ACCAGGTGCC TTGCCGAGA GAAACACCA  
NAGTCTCCTG TTGCTCATA AAGAAGTTT TGGGATGGGA GAGAATCCAG ACCATCTTGG GGCAGCCANG CCTTGCCCTT  
CATTTTACA GAGGTAGCAC AATTGATTCC AACACAAAAC TCCTTCCCT TTTTAAATG ATTTCTGTTT TAATGCCATA  
GATCAAAGGC CTCAGAAACC ATGTGTGTGT TCCTCTTTGA AGCAATGACA AGCACTTTAC TTTCACGGTG GTTTTGTITT  
TINCTATTG CTGTGGAACC TCTTTGGAG GACGTAAAG GCGTGTTTTA CTGTTTTTT TAAGAGTGTG TGATGTGTGT  
TTGTAGGAT TCTTGACAGT GCTGTAATAC AGACGGCAAT GCAATAGCC

SEQ ID NO:582: (Length of Sequence = 261 Nucleotides)

CCAGCAGGTC GTACTTGAG TGGCAGGGTC CCGACAGGG CCGCTCAGT GTGCTGAGCT TGGTGGCGG CACTGGCTTG  
GACAGTGGCA TGACCCGAGG GAAGTGGCG CCGAGGGCC TCAGGGGGCT GAGCACTCC TTGCAGAGG GCGGGAACGG

GTNCTGCTGG TAGTGGCCAA ANACCTCGAA AACAATGGGC TNGCTCTTGA TGTACAGGTG GCGTTTATTT TCATGGATTT  
ATACACACTG GAAAAGCCTC T

SEQ ID NO:583: (Length of Sequence = 399 Nucleotides)

CCCAGGCCAC CATTTAAAGC AGCCATTCCCT GCCAAAGAGC CAACATTGAG GCCAGCCGTT GCTCCAGCTA ATGTCTGCAG  
GGCTCCAAGT GAGGCTATGG GGTGACAGA ATTACTGCTG CTAGAGCTAG GTGAGGACCC TGAAGTAGTG AGCAGCCTGA  
GGGACTGCT GGATGTAGTG AGAGCATTGG TACCACTTGG TGTGTCTGA NNTGCACTAG CTGCAGCAGC TAGTGCAGCN  
AAATTCTGTA ACTGCATTGC ATTCAACCTT CCCATTGGGT GGAGGCTGCT CAGGGTGTG AGGTTCCAG AGGAGGCAGT  
CTGCTGAAGG AGTGCTAAAT ACTNGGTCC AAGAGTATTT AGACCAGCAA GGTTCCTCCA CACAGATGCT GCGCTGATT

SEQ ID NO:584: (Length of Sequence = 441 Nucleotides)

GTTGTTTTTA AGGATTAAAT GAGATATTAC ATGTAATGTG CTCATCCAG TGCCAGCAC ACAAGAAATG TTCAATAAAA  
TAGGAGGCAT AATTGCTCTG TTTGAATACT AGATAACCTT TTTAATGGAT ATTCTACAAT TATGAATCTA AGGTGCTTTG  
GAGGAGCCTA GGCAATCTAT TCCAAAATTA AATGTAAGGA AGGTACATGA GTAAGGGATG GAGTAGGCCC TGGACCAACA  
CTAGAGCTCC AAATTCCTA AAAAGCTTGA GCTTCTTTTA CTGTGGCCAC GCCTATAATG GGAATAAATC TGGTCTCTCA  
AACAGTCCCT CCCCTCTCTA AGCTCTGCTG GGGAGTAGAG ACATCAGCAG GCTGTTCTG TGNITAGCTC CTCCCCATCT  
TNGACTCTCA TCCCATTCCC TCTTCTCTAC TACCCATTCA G

SEQ ID NO:585: (Length of Sequence = 326 Nucleotides)

GAAATGCAGG TTCAGCTATT TNCCTCTGC AGAGTCCAGT TAACAAAAGT GAGTNCCTGT ATAAAGAAAG TNATTTTTTT  
TTTTTAAATT ATTCCAAAGC TAGCTGAGGG GAACAAGTAC AGGCTTCTG CCTAGGGGTA TCACCTTGTCT TTTGGAGCAG  
GAAGTAAGCA CTTTTAAAGG GGGCTTAACA TGAATGGCAC ATGGGGTCCG GGAAGTAAG CAAGTGCAGC ATCTACATGT  
TAGTTTGGTA CCTTATCTAC TAGGTAGTCA AGGTGGTGAC TGCTGTGTC TTTGTGGGC ATGTGTACTT TGGGGTTGTA  
AATTGG

SEQ ID NO:586: (Length of Sequence = 431 Nucleotides)

GAACGAAGGA AAAGCATCAA AACCTACAGA GAAATNTTC AAGAAAAGA GCGGAGAGAG AGAGAGCTGC ATGAAGCATA  
TAAGANCGCT CGGTCCCAGG AGGAGGCAGA GGGATCCTT CAACAGTACA TTGAGAGGTT CACCATCAGT GAGGCTGTTT  
TCGAACGCTT GGAGATGCCA AAAATTCTGG AAAGAAGCCA TTCAACAGAG CCAAATTAT CCTCCTTCTT GAATGACCCC  
AATCCCATGA AATACCTGCG GCAACAGTCA CTGCCTCCAC CCAAATTCAC TGCCACTGTT GAAACCACCA TTGCTCGTGC  
CAGTNTCTG GGATACCAGC ATGTCAAGCA GGCAAGTGGG GTCTNCAAGC AAAACTTGT ACTTCCCAA AGCAAGTGCC  
TATGCTTGAC ANCCAGGCC TTACTTCCA G

SEQ ID NO:587: (Length of Sequence = 338 Nucleotides)

CTCAAGCAAT TCTCCACCT CAGCTCCCA AATAGCTGGG ATCACTGGCA CAAACCACCA TGCCAGCTA ATTTTGTATT  
TTTTGTAGAG ACAGGTTTC ACCATGTCG CCAGGCTGGT CTCAACCTCC TGGGCTCAAG CAATCCTCCT GCTCGGCTT  
CCCAAAGTGC TGGGATTACA GATGTAGCC ACCGCATCCA GCCCCACACC CTCATTTATA CCAATTACCT CCCCAGTAAC  
TGTGGACTTT TGCTTCTCA CCCCTGCTCT GATCTGGAAG GAGAGGGAAT ATGTATATAG TTGTCAGCAC AGTCCCAAAG  
TTCAATATTT CTGCGGC

SEQ ID NO:588: (Length of Sequence = 277 Nucleotides)

205

AAGAACATTT AAGTAGTTCA TACAAAGAAA TATAAATGT NCTTAAATAT ATCAAAATAT ACTCACCTCA TTCATAGTAA  
AAGAAATAAA AAAGTGTGCT CTGATGACAT TTTTCATCTA TGAGATTTAC AAAGNTCTAA AAATGAGAA TATACATTC  
CTATGCCCTT TGGATGGCAA TTTGGCAGTA ACTATCAAAA GTATAAATAT CTATACCCTT TGAGGTGTCA ATCTCATTTT  
AAAGAATTTA TTCTTCAGCT ATGTACATAC ATGTAGG

SEQ ID NO:589: (Length of Sequence = 353 Nucleotides)

GTAATGAATT ATAAGAATCT GAATTGAGAG CTAAAATATC TGGGTGTAG GCCTACTCTG CCACGNTTTT NITATTTGCA  
AATATTAGAG CTGAAGTAGA TGACCTCAA GGTCTAACC AACTCCAAA CCTACAATTC AATGGCTGAC TGATATACAT  
TGTATACTCT TTA AAAACAA TTA AATCAA AGANGNTAAT AAATGTGTCA TGTATTATAC AACTATTATA CACGTGTGTG  
TGTATATATA TATAINTVIN CACAGAGAGG AAAGACATCT ATACATAGNC ATAACCATCA AATCAGTCAG AATTTCCATC  
AGACACTTIN CATTTCCAG GTCCATCAGA TGG

SEQ ID NO:590: (Length of Sequence = 364 Nucleotides)

CTCATATACA TAAAAGTGA TAAGAATCCG AAAAGACAGC CAGGGGAATT AAATGCCAGT TGGGGCCAAC GGGGCCCTGA  
TCACGGAAGA GGGCGCCCC AGCTCTCAAT CTTCACACAA TCCCTGSCACC CAGGGTCACA GAGCATGCGC AGGTCTCTCC  
CGCCACTTC CGGGGCAACT GCCAACCACC GCGCAGGCTG AGCCCCAGGC AGGAAGCAGC CCACTTGGTG GGGTGGGGT  
ATGAGTCCCT CCTCGGGGG GCTCGGTGGG TCTGAGTAT TCTTTGGCCG GATTINCTGA TCCGTCTGCT CCAGGTGAGC  
TNGGAAGGC CCCAGGAAAA GGCCANAAG GGCTTTGCC AGGG

SEQ ID NO:591: (Length of Sequence = 311 Nucleotides)

GAAAGGGGAA TAGGGAGTTA ACGTTAATC AATAGAGTTT GGAAGATGA AAAGTTCTA GAGATGAGTG GTGGTGATGC  
CACATAACAA TGTGAGGGTA CTTAATACCA CTGAAGTGA TGTTTAAAT GGCAAAAAGG GTAAATTTTA TGTATGTAT  
ATTTTACCAG AATTTTTTTT TTAAGCTTA CTGATGGGG ACCAAGCGTG GTGGCTCACA CCTGTAATCC CAGCACTTG  
GGAGCCNAG GCGGGTGGGT CACTTGAGGT CAGGAGTTCG AGACCAGCCT AGCCAACATG TTGAAACCCC G

SEQ ID NO:592: (Length of Sequence = 358 Nucleotides)

ATTTTGGTTT CTACCCATCA TCTCTCTC AAAGGAACCA GGGTCTTG GGGATTTGGC TGATGCCAGG GGATGGAGAG  
TGTAGTTGG NCTGAAGGG GAGGCTCGCA GCATGTGTG GGCAGGTCAG ACAGACCCAA GAGCCAGCTT GGTGGGGCAT  
CCCTGGCTAC CCTGGGGACA CAGTGAGCGC CGAATAAAT AACATCAGGA ATGNTCACA ACGCAATGAG TAAGGGGAAT  
CTGAGTCTAT AGGGATACAG ACCCAGAGGT AAATNGCCAT GGCCACCCAC TTTCTACAG GAGAATGTGA CTAGTTGAGC  
GTAGGAACAT GGAACAAAT GGTAGAGGT GCTGACAT

SEQ ID NO:593: (Length of Sequence = 354 Nucleotides)

GACAGACTGA AGGAATATAT GCAGCTAAT TTAACATTTT TTGAAATTTT ATATTGCAGA AGTTGTACAT ATTINCTGTT  
GTGAAATTAG AAAGANTGA CAGGCAAGGA GGGTGGTCTA CAAAGCACTC CATAGATCCA CCATACTGAG ACAATGCTTA  
ATGCTTTGAT GGATTTATTT ATTINATACT TTCTATGCAT ATGCATGTAT TGTATAAATA CGNATGCATG GTTAAATAGA  
AATGGTCTC CTGGGTGTTC TGTATTATCCA TTTATGTGTG TGAAGTAAAT CCCCAAGAG GTAGGTTTGC TTTTGCCTGA  
GGAGTCTTTT GCTACATACT GGCTGTACAT AATG

SEQ ID NO:594: (Length of Sequence = 319 Nucleotides)

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GAACATGGCC GTGAACTGCT CGGAGATGCG CTTGAACAGC TCCTGGATGG CCGTGTCTGT CCGATGAAG GTGGAGGACA  
 TCTTGAGGCC GCGGGGCGGG ATGTCACACA CGGCCACCTT CACGTTGTG GGGATCCACT CCACGAAGTA GCTGCTGTTC  
 TTGCTCTGGA TGGCCAGCAT CTGCTCGTCC ACCTCCITCA TGGACATGCG GCGCCGGAAC ACGGTGGCCA CCGTCAAGTA  
 GCGGCCGTGG CGCGGGTCCG AGGCGGCCAT CATGTTCTTG GCATCGAACA TCTGCTTGGG TGAGCTCGGG CACGGTCAA

SEQ ID NO:595: (Length of Sequence = 370 Nucleotides)

GAAGAATANA AAGAAAAATC CAAAATGAAG AGTATTATAC AAGACAACATA GTCAATAGTC TTCAAAGTGT CAAGGTCATG  
 AAAAAATTGAG GAAGCATCCC AGACTGAAGG GGAATAAAGA AAAGTGACAA CTAAATGTAA TGGGTGATTC TGGATTAGAT  
 CCTGGAATTG AAAAAGAACA TTCATGGAAC AACTGACAAA TTGAATAAG GTCTGTAGAT CAGTAACAGT ATTGCATCAG  
 TGTTAATCTC CTGGTTTAGA TCATGTCCTA ATGGAAATGT TTTGTACTAT TTTTGTGGA CTCTTAAGGA ATGTGGGTGG  
 AGGACACGGA TGAGACCTAC TTGCATCGAC AACAAGGCGT TCTACGGACA

SEQ ID NO:596: (Length of Sequence = 335 Nucleotides)

CCACAGAGCC CCAACTCCCC CCACAGGAGC CAGCTCCCC TCGAAGGCCT GGAGCAGCCG GCCTGTGACA CCTGAAGCCG  
 CCAGCTCGCC ACAGGGGCCA GGGAGCTGGA GATGGCCTCC AGCGTCAGTG CCAAGACTGA GCGGGCCCTC CAGTGTGTTC  
 CAAGGAAATG TAGAATCACT TTGTAGATAT GGAGATGAAG AAGACAAATC TTTATTATAA TATTGATCAG TTTTATGCCG  
 CATGTGTCTG GGCAGTAGAC CACATCTGTT CGTCTGCACA GCTGTGAGGC GATGCTGTTC CATCTGCACA TGAAGGACCC  
 CCCATACAAG CCTGT

SEQ ID NO:597: (Length of Sequence = 336 Nucleotides)

CTCTGAACA TCACAACTT GGTTTCTACC TACCACACGA GTAGCCAAAA GAAAAGAAGC ACTAATAGAG AAAGGGTGT  
 CTCACACCAG ACAGAGGACC TCTGCTGTCA ATTAGATCCA GTATCATGAC CTAACTTTAA GTGTGGAAAA GAGTTCAGAT  
 CTCTGAGACA CTGTGAAGAA ATGGATGGCT CATGTAACAT CTCTGATCCC TCAGTCCCA ACCCTGGAGC TGTTTCATTT  
 ACAACATTCA TAGGAGTTAA CTTAGCAGTG TTGCAAGTTA AGGTTNCAA CCAAATTATT TAATCAGTGT CCCCCAATA  
 AAATCACTTA TCCCATTTTA TTGCTAGTTT AGTTT

SEQ ID NO:598: (Length of Sequence = 402 Nucleotides)

ACCACTACAC AATATATCTA TGTAACAAAA CTGCATTCTT ACCCCTTAAA TTCATACAAA TAAAAAAAT TAAAAATAA  
 ATAAAGTAGG ACAATCCCC AGATAAATAA ATTAATAAAT AAATAAATAA ATAAATAAAT AAATAACTTT AGCTCTTGCC  
 TTCTCTACA CATAAGTTAA TGCTGATGG GGTAGTGGT TATGCTTCTG TAAACTATAA TCAGATGTAC TCTTGACCCC  
 AAACCTAGAT GCGATTTTNC GTATACTGGA ATCTTTGCTA CCTGTATATA AACTGTGGAA CTGAAAATGC TGCATTGGGA  
 GCAGTCTGAT AGGNTCTGTC CTAAAGGCT ACTCTGAGG GCTCTAGGG CTTCACTCTA CAGGCCCCCA GGGAGGACTG  
 CT

SEQ ID NO:599: (Length of Sequence = 369 Nucleotides)

CTCAACAAAG TTTGGATTTT NTCCACGATG ACTCCTTGGG TGAATTTTAA ATCAAGTTAT TTCAACCATT TTNCTCATAT  
 ATTTGCTGCA TCCCTATTCT GGTATTCACT GAATACATGG GAGAGGTATG TNATTCTCAG CTCOCACAGC CCATAAGTCG  
 GGAACACCAG ACTTCATTCC CCTCTGCTCT AACTCAGACT GTGAGGTATG TGAGGGCAAG ACTGATGAAT TGTCTCTCTT  
 CCTATCACTG GTGCCAAGCA CAGTAGTTGG CATAAGAAG TTAATCAATA AAGAGGGGGT GAATTTAATG AAAGACAGAG  
 GAAGGNGGGA CCTGGGGGAA GAGGTGGGCA TAAAGTGAAG GTACAAACA

SEQ ID NO:600: (Length of Sequence = 342 Nucleotides)

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CCGCTCTCTG GGTTCAGCA ATTCTCTGCT CTCAGCTCC CGAGTAGCTG GGAATACAGG CGTGGCTCC ACCACCACGC  
 CCGGCTAATT TTTGTATTTT NAGTAAAGAT GGGGTTCCTC CATGTTGGCC AGGCTGGTCT TGAATCTCTG ACCTCAGGTC  
 ATCCGCCCCG CTGGCCCTCC CAAAGTCTG GGAATACAGG CGTGGCACN CGCACCCGGC CAGCTGCTTC TATTTTAATC  
 TGAATCTGGA AACACCTTCC TACTTTAAGG CACAGGATCA GGGTAAGAAC CCACATGTAC GAGCTAACAG AGCTGCACCT  
 CAAATTTACT TAAGTTAATT AA

SEQ ID NO:601: (Length of Sequence = 319 Nucleotides)

AGTACTATTC TGCCATAAAA AAAAGAATGA GATCCTATCA CTTCGAACAT CTGGATGGA ACTGGAGGTC ATTATGTTAA  
 GTGAAATAAG TCAGGCACAG AAAGAAAAAC TTTGCATATT CTCACTCATT TGTGAGAACT GAAAATTAAA ACAATTGANC  
 TCACGGAAAT AGAGAGTATA ATGATGGITT CCAGAGACTG GGAAGGTAT TGGGTGGGG GCAGGGAATG GGAAGGTTA  
 ATAAGTACAA TGCAATGAAT ACGATCTNGT ATTTTACAGC ACAAAGGGT GCCTATGGTC AACAATAATT TATAGTACA

SEQ ID NO:602: (Length of Sequence = 334 Nucleotides)

CACCCACAGA CTGCCAAGTG GGACAACITT CTGGCTTTTG AAAGGCTCCT TCTTCAGAGC ATTGGGGAGT CAGCAATGTC  
 CGTTGTGTTA AATCAGCTGC TGCCCATGAT TAAGCTGTGA ACCCAGAGAA CCAACGAGGA CTACAGCCCT GAGGAACGTC  
 TGATCCTTCT CATATATATT TATNCTGTCA CTGGAGAGCT CACGGTAGAC AAAGACCTGT GTGAAGCAGA AGAAAAAGTC  
 AAGAAAGCAT TGGCTCAGGT CTTCGTGAG GAATCTGGAT TGTACCTTT GCTGCAAAA ATTACGGACT GGGGACTCTT  
 CAATTAATCT GACA

SEQ ID NO:603: (Length of Sequence = 410 Nucleotides)

TTTACCATTG TTAGCCAGGA TGGTCTGAT CTTCGACCT TGTGATCCG CTGCTCGGC CTCCCAAAGT GCTGTATTAA  
 CAGGCGTGAG CACCGCGCC CAGCCAGGAT TATTATTTTT TAAATCAGAG AACTGAGTA CCACCTAAG GGAATTAAT  
 TATGCAATTG GAATGAACT AAAGTGAATT GAACATTTAG TTCACTTAG ATTTTATTTT TCCTGCCAAC TGTATATGA  
 GAGTTTGAGA GGGAGCCAG ATTAGACTTA GAGAAAAATA AATAAATTAC ATTTTATCTG CACACATGAA TTCTAGAGTG  
 AGTTAAATTT ACCACAGCG GGCATATATA TGTATATATA TGATACCNIG TTTTATATA GCTCCNTATA GTTTTAAAG  
 CACTTGTAC

SEQ ID NO:604: (Length of Sequence = 399 Nucleotides)

TCTCTAAGCA AAAAGAAAAT GATGAAAGAA GCAACTTGG AGCATCAGAA AGGAAGAAAG AACATGATAA AATGAAATA  
 TGAGCTCTTA TTATGAACAT CGTATTACCA TTCATTGTGA AACTTAATCG TATATTTATA TATAAGCATC CTTCAGAGAT  
 GCTGTGGGTT CAGTTTCAGN CCACTACAAT AAAGTGAATA TAGCAATAAA GCAACTCATA TGAATTTTTT GGTTCCTCAG  
 TGCAATATAA ATTAANCCTC ATGCTATACT GTAGTCATTT AAGCATGCAA TAGCATATG TCTAAAAANT GTACATACCT  
 TTATTTAAAA ACGCTTTTAT TGCTTAAAN AGGCTAAATG GCCATCTGA GCCATCGCT TTTTCTCTG CAGAGGGG

SEQ ID NO:605: (Length of Sequence = 372 Nucleotides)

ATGCCCTAGA AATCCTACCA CCTCCAGAA ATGATAGTTA TGGAATTAAT CATGGCATGT CAGATATGGT TCGCTGATGC  
 CTGCTTTAG TTCTCAGAAA TAAGGCTTTA AAAGACTGGC ATGTTTCAGG ATTGCTGTCA GGAAATGATA ATTTAAATA  
 CCAAGAGTA CACTAAGAAT TATGGAAGCA TCTGTGAAC TAATAAGCCA GTGGACATAC TGAATTTTAC CAATGTGTCT  
 ACATACTATA TTAATAAACT TCCTACAAAG TATTGTCCCA ATTCAGTTCA TCTGAGGATG TGAAACACT ACAGTGTACC  
 TTAAACATC ACATTCACAA CCTGACAGA CTGAAATAAA ATGAAATTAG GG

SEQ ID NO:606: (Length of Sequence = 399 Nucleotides)

208

TGCCTTCCTT TCTTCAATTC GAGACAGCAG TATCATTAGT GTGTATAGG TTATAATTAA ATCTAAGTAG TTCTTTGITA  
 AATCAAAGTT TACAGTAATA TCAAAGAAGA CTTGGCAAAC GTCAATAGTA TTCAGCAATT CACAAACATG GTCCCTTAAAT  
 TCCATAACAT CTACAAATGT GAAGTAATAT AATGCCAGAT TTINCAGAAT CTCTGATTTT CCTTTCTGTA GTTGTGCAAG  
 CTGTGTATG TTGTTGCGGG TTTCTACAGC AGGGAATTT CTGACTATGA ATTTACAGC AGATTCCAGG NTTTTGTGGA  
 TAAGATAGGA TGGTTTGGC NTGGGNCCT CACATGCCNT TCTTGATGTT GTAGAGGCGG GTGAGCATGC CGACGGCCC

SEQ ID NO:607: (Length of Sequence = 412 Nucleotides)

CTGTACCCCTT ATAAAGAGTG AAAGCCCTGC CCCCTTCTCC TATAGAACCC CTAGCAAGGA GACTGGAAGA NTCAAAAACA  
 ATCCACCCAA AAAATGGCCT GCAGGGACAC AGTCCAGAG AAAGAGACTA TGTACAACAA GGTACAGTAA GTAAGACCTG  
 CCCACACACA GGACTTCCAA TCGACTTCTT AGTGCTTACT CCTACAGATG AACAGATCAA CCAGGGCCAC CAGATGCTCC  
 AGGAAAGACA GGAGTCCAA AAGAAAATTC GGTAAAGTTG AATATATTTT GAGCAAATTT TCAGTTCTGT TGAAGTATTG  
 GGGGACATTT CAACAGTGAG TAGTAGTTTA GGGGAACAG CTGGCACCTC TGGCAGTCGC CTCAGAGGTC AANCCAGCGT  
 NTAGGTTGCT TT

SEQ ID NO:608: (Length of Sequence = 419 Nucleotides)

ATGAAGGCAG CTGAACCTC CATCAAGTTT CTGCTCCCC AACGTAATAT GGAAGTCGTT CTGGCTGTAG GACCCAGCT  
 GATTGGAATT GGAAAGCACA GTGCAGCTGC AGAGCTCTAT CTGAATCTGG ACCTTGTCAA GGAAGCAATC GATGCTTTCA  
 TCGAGGGTGA GGAGTGAAC AAGGCGAAGG TTGTAGCTAA GGAGTTAGAT CCCAGGTATG AAGACTATGT GGACCAGCAT  
 TATAAAGAGT TCCTCAAGAA TCAGGGCAAA GTGGACTCGC TGGTGGGTGT GGATGTGATA GCTGCTTTGG ACCTGTATGT  
 GGAGCAGGGC CAGTGGGAC AAGTGCATTG AACAGCTAC CAAGCAGAAC TACAAGATTC TGCACAAGTA TGTGGCTTTG  
 TATGCAACTC ACTTGATCC

SEQ ID NO:609: (Length of Sequence = 337 Nucleotides)

GGTGAAGTT GTAGTGAACC GAGATCATGC CACTGCATC CAGGTTGGGT GACAGAGAGA GGCTCCATCT CATAAAAAA  
 GAAAGAAAA AGCATTCTG AAAGGAATAA AAAACAAAT GATAACATCC CCTAATCTCT AGTTGTTGGG ATGTAGTATC  
 CTTCAATTGA TCAGGAAATC ATATGATTGT CCTTAAATTA TTAAGTTGGC AGAATTTGTG TGGTTTCATA ATGATGCTTG  
 TAAGATGATA TTNTAATGGA AATGTTTAG ACTATATCTN TTGTNGTTTT TNCCTGTIN TTTGTGTAAG GCTTAAANCT  
 ACCCCCTTTA AAAACAG

SEQ ID NO:610: (Length of Sequence = 441 Nucleotides)

TAAGCCAGAG ACATTTCACT GTATTAATCT TGATACTAAT TACTAAGGCT TTTCTGTGGA CATTAAATTT GATCTGTTTA  
 ATTGCAATA CAATAAAGT CGTGATTAT GCCTAATGTT TCTGCTAGGC TGATGACATT TTGAAATGG CACTTATAGC  
 CTGGTTTGTG TTGGTTACAA CTTTGTGGC TCCAGATGCT AAAAAAATC TAATTGAGTA AGTAAATAAT GCAGCTAAGC  
 GTGCTCTCT CGCTTCGAA AAGTTTTTTC TACTCCTTTT TCTCCCTGGA GAGGCCCTGC TGCACACTGA TGCTGATCTA  
 AGGAAATGCC TTTGCTTCTT TGCCACTGAG CAATGTTAGA ATCACTAGGA GGGCAGGGCT ATCCCACTGG TCACTCTGTC  
 CCAGCATATC TACCATGAAG TCAGCAGGGA CTACAACTC C

SEQ ID NO:611: (Length of Sequence = 344 Nucleotides)

TTTGGTACAG TAATTAGGTT TGGTTGATTC GGTATGCGG GTATACCGC ACATGCAAAC ACACACAGGG TGTGCGTGTG  
 TGTATATAAG GGCATATACA CATGCACACA TATACACATA TGTATATAG GATGTGTGTA TATGTGTGTA TATATATAGG  
 GTGTGTATGT ATCCTATATA TGCCATATA CATGTATATG TNGTATATAT ACATGTATAT GTACACATGT GTGCATATGT

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GTACATATAT GTGTATATAT GTATATATCC CACATCTCCA ATTTCCTAT ACGTATATAC ACACATATAT GTTATATAGG  
GTGTACAGAT ATAGGATATG TGIG

SEQ ID NO:612: (Length of Sequence = 384 Nucleotides)

TGATGACCAT AAGCCCATGC TTTTCATAGA TGTTTAAGGG TTAATGAGG TAATGCATGT CGAGTGCTCA GCCAACTGAG  
ATTCAGGAAG CGCTCAATAG ATGCTGGCTG TCATTATTAA CTGAGTAAGT AATCCTTTTC CCACAGAAGC AGTAGAAGGC  
TGACGATGTG TGIGAAAAGG ATGGATACAA TTCCCTGGGC CACAAATAAA GGTTTTTTTG GTGTGTGTG TTGTTTAAAT  
GAACTGAAAT GAGTTTGAGA GATTCATATA TTATTTTACA ATACTTCTTA ATGCTAGTTT AAAAGTTCA ACATGTGTCAT  
TCTACTCCAC TTCCGTATGA GATAAGTATA TGAGGGNGCT TAATTCCTCCG NTAAACTAAG CAAG

SEQ ID NO:613: (Length of Sequence = 342 Nucleotides)

TATTTATTTT TGIGGGTGTG GACTTCCTAT GTGGGCTTTT TGGGTGACAC TCCCTTAAGG GTTCAGTTTG ACAATTCTNA  
GAGTTGTCTT GCAGTTGGAG GCCACCAGAG GTATCTAAGC TCCTGCTTC CTATTINATA ATCCTCCAGC CCCAGCAGGT  
CCACTCCTGG TTCTGTGTG TTTGGCCCGG GCACAATCCC CACTGCTTTG CTAGACGTGC TTCTGCCAT GTGGCTTTGG  
GCCTAGAGCT TGTTGATAAT TGCAGCTTGT GGCAGTGGAA ATATGGCTGA ATGAGCGTCT AAACCCCTGG GTNGGGGGNC  
TNAANTNCNN GGGTTTTTAA AA

SEQ ID NO:614: (Length of Sequence = 393 Nucleotides)

CAGTGTTATT AACATAGCC AGGAGGTGGA AGCCACCTAA ATGTCCATCA ACAGATGGAT GGATAAATGA AATGTGGTCT  
ATACATACAA TGGAAATATTA TTCAGCTTTA AAAAAGGAGC AAATCCTGCC ATGTGCTACA ACGTGGATGA ACCTTGAGGA  
TGTTTTGCTA AGTGACATAA GCCAGTCACA AAAAGACAAA CGCTGCATGA TTCCATTTAT ATGAGGAATC TAAAGTAGTC  
AAACTCTTAG AAAGTAGAAT AGTGGTTAGC AGGGTTAGG GGGAGGGGAA AAAGAAAAGT TACTGTTTAA TGGCTATAGA  
GTTTCAGATA TGCAATACGN NAATTTCTGG GGGATTCTTT TGCACCACCA ATGTGCACCG TATAATTCCA CIT

SEQ ID NO:615: (Length of Sequence = 310 Nucleotides)

ATTATATACA TTCCTTACT GATTTTTTAA AATGTGTCA ATATCTTCAG TGAATCTTA ACAATCTGGG GAACTGTTTT  
CCCAATTAC CACTTCAGCA ACGTTCATAC GAAATCAAGG CTGCGCTTCA TGTGAGTGT AGGTCACCT TTAACCTGAA  
GGTTTGTGTT TGTCTCTAAC ATCTTCAGAG TGAGCTTTAG GGATGCCTGA AGGATGGACA GTACAAGCAA GCAGCTACTT  
CCATGATACA GTGGGAAGAT AAAAAGGCC ATTCACTCCA GCGTGACCT GTAAATCCAG CTGCGCTCC

SEQ ID NO:616: (Length of Sequence = 266 Nucleotides)

GAGATGGAGT CTCGCTCTAT CACCCAGGCT GGAGTTCAGT GGCACGATCT CGACTCACTG CAAGCNCCGC CCCCCAGGTT  
CAGCCCATIN TCCTGCTCA NCCCTCTGAG CAGCTGGGAC TACTGGTGCC CACCACCACT CCAGCTAAT TTTTNTATT  
TTTGGTAGAG ACGGGGTTT ACGGTGTTAG CCAGGATGGT CTGATCTCC TGACCTCGTG ATCCACCCGC NTGGGGCTCC  
CAAAGTGCTG GGATTACGAG CGTAAG

SEQ ID NO:617: (Length of Sequence = 376 Nucleotides)

ATAATAATGA AAAGTGAAGG GTGGGGGTGC TGGCCACCTC CCATTTCTTT GCCTGGGTGG TGGTGACCAC GCGGCCCTTG  
TGCTCTTTCC ATTGGTACT GAGGACCAIT GCGCTCATGG GCCCAGGCCA CAGGCACCCA CTGTINAGCC TCACCTGCCA  
CCTCTCTCCA TGTTGGCTTN TTGCCCCG GCGTGGCTG GGCATGGGGG AGCTTATNTC CCGACCAAGG GCGTTGGCCA  
TGINTCCTTC ACAANCCCCA CTCCCCGGG ACTGAGCCTC CACTCTCTGC TGGGCTGAGG GCTCTGTGTT NGCCCAAGGAG  
CCCTCCACG CACGTGCCAG CCCATCCCAT CATCAGCACT TGGTTTTAAG CTTCAA

SEQ ID NO:618: (Length of Sequence = 352 Nucleotides)

GCCCATCCTG GCTAACACGG TGAACCCCGT CTCTACTAAA AATACAAAAA ATTAGCCAGG CGTGGTGGCG GGTGCCTGTA  
GTCCAGCTA CTTGGGAGGC TGAGGCAGGA GAATGGCATG AACCCGGGAG GTGGAGCTTG CAATGAGCCA AGACTGCGCC  
ACTGCACTCC AGCATGGGCG ACGGAGCAAG ACTCTGTCTC AAAAAAATAA TAATAATAAT AAAATAAAAA GTTTGTTAGT  
ATTAGCAGAT ACATATTACT AGGTACCCCC CATGCTCAAT GAAGTGTGG GNTACTCTNA AAAAGTGTCC AATCTTACAG  
GTGTGACTTC CTCTGGAAC TCAAATTCTT TT

SEQ ID NO:619: (Length of Sequence = 359 Nucleotides)

AAAAAAAACG ACCCCCACAA GGGGGAAGGC CCCAAGTGGG CCCTGCCTG TNGTNCICTC TGGCTCCAGA GATGTCTGCA  
TAGGCCTCAG CTTCTACTG GCCAATCTCC TCTTCATGG CACCAGCCAC TGCTAAACAT CCTTCCTCA CTTCTGTGT  
AAGCTGTCTC CCCTGAGCCA CAGGTTGCAC ATCTAAACCT CAGCTCCAGG GAAAGGAAGA ACCAATGGAA GTGCCAGAGT  
CCTGGGGCAA GCCAGAGCAT CACCTGTCTG CAAACCTCTG CTGGGCATC TAAGCAAGCA CAGGACAAGN CCCAGAGTTT  
AGTGTGTCCA GTATCCAGCA TGGGACAGC ACATGCAT

SEQ ID NO:620: (Length of Sequence = 447 Nucleotides)

CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGTCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG  
CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTGTG TGACTCTAAG CTCAGTGCTC TCTCCACTAC  
CCCACACCAG CCTTGGTGCC ACCAAAAGTG CTCCCCAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA  
TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCTGGGAT AATTTTGTGT ATTTTAAAG  
TAGGACACGG TTTCACCATG TTTGGCCAGG CTGGTCTTG AACTTCTGA GGGTAAATG ATCTTNCCTC ACCTTNTGCC  
TTCCCAAGTG CTTGGGATTT ACAAGGTTTT AAGCCACCCG AATCCAT

SEQ ID NO:621: (Length of Sequence = 237 Nucleotides)

CAATACCCCT GGTCTCTGGG GCAGGTGTTT TGGGATCCTG GACAGGAGGG TCAGGTGAT TTTAACCAG AGAGACCTGA  
TCTCATCACT GTCTTTAGA GGGGAGAGAA GTTCGTTCCG GCCAAAGGG ACCAGTGTGT AGAAGTGTCT CTCCAGCTCC  
TTGGCGATGT CACTGTGGT CCTGGCGTTN ATGGAGCCTA CAGGGGCCCT AGGACCACTG CCCCNTTGG CAGCGGC

SEQ ID NO:622: (Length of Sequence = 247 Nucleotides)

AGAAGGTCAA TAATAACAAA CTTCTTCAAG GTAAAGCAGG ATGTGGGAAA CCATTGCAAG GAAGCTAAAA ACCTTGAAAA  
AAGATTAGAA GAATGGCTAA CTAGAATAAA CAGGTAGAG AAGACCTTAA ATGACCTGAT GGAGCTGAAA ACCATGGCAC  
GAGAACTACG TGATGCATGC ACAAGCTTCA ATAGACAATT CGATCAAGTG GAAGAAAGGG TATCAGTGAT TGAAGATCAA  
ATAAATG

SEQ ID NO:623: (Length of Sequence = 315 Nucleotides)

AATTTAGGTT TGTTTTATTT AAGTTTAATG TTAATTCAT GCTGTGTTT AGTAAGANCA ATACAGATTG TGTATCTGTG  
GCTCCAGTCA GATATCCAGT AGTACAAATN AGCTTCAAGT TACACATACT GANCAAAAGA GGTGAGCGA GCGAAGGAGG  
GGAGGAGTGA GGGGAAGGAG GTAGGGGAG GGGGAAGGAG AAGAAACAAA AGANTTGAAC AGGCATGCAG GCTTTTCCAT  
ACCACCTTCA ACGCTAACCT GCTTCAGTGG GAGAGTAAAG TAGGCAAGAN TGAGCAGCCA CGAATTGTTG AACTG

SEQ ID NO:624: (Length of Sequence = 375 Nucleotides)

CCATGTTGGC CAGGTCTCGA ACTCCTGGCA TCAGGTGATC CGCCGTTTC AGCTCCCAA AGTGCTGGGA TTACAGGCTT  
GAGCCACCAG GCCTGGCCCG TTAATTTGT TATTTTAA TGCATTAGTA AAAAAAAAAA AATTTTAAT TGCTAGAACA

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TTAAATATCA ATACCCACAT TAATAAAGC TATTTGGGAG CCTAATAAT TATCAATGGT GTAAAGGGT CCTGAGACCA  
AAAAGTTTGA CTTACACAGG TGTTTGAACA CTACAGATCC CATCTTGCCC ATGAAGCTTC CCTAGACATC CCCACCCAC  
CGTGCTCCNT TCTGCATCCT ACAATAGCAT CCACTGGTAA GGGCCACTTA TTTTA

SEQ ID NO:625: (Length of Sequence = 305 Nucleotides)

GTTCCTAGAT TACTCAAATT TAGTACTCTT CCATCTTTTC TTGTTGCTAT TCTTTTAAAA TCACAAGAAG TCCATAACTT  
AAGTAGGAAT TTGTATAATG TAACTTATTG TGAGTATATT TCCTTACCAG CTCATAAAGA ACTATGTAAA CTTGAATGCA  
TATTTTINAC ATAAAAATAG CAAAAAATAA AAAANCAAAA AAAAAACAGT ACTGGCCTAA TACTAGTNGA NTTACAGAAT  
ANGGGTAAAT ANIACATGNN CATCCTTACA GAGTGAGCAT AAACAATACA TGGTAAATAAT ATTTA

SEQ ID NO:626: (Length of Sequence = 300 Nucleotides)

AGCAATCACA TAAGGAAGGC ACCTCGAGTC TAGTAACACT GTGACTCTTG CGGTCTCTTA GAGGTACTTG GTGGTCTTGG  
ATAAGATCTG GAAGAATTCT TTGGATTTC AGACATAGGC TCTTGINCTC TTCCCTTACT TTCTCCCAA CAAATGGCAT  
CTCTCTCTCT CTCTCTCTGT GCIGAGCTGC CTAGAAGTGT GGGTGGGATC ACACAAGCAC CCTTNTGGCC ATTGCCCTG  
GGACTGTGCT AGGTGAGACC TGAAGTCAGC ACAGCAITGG GTCTCACCCA ACACCTGTGG

SEQ ID NO:627: (Length of Sequence = 369 Nucleotides)

GAAAAAGAGA GAGGAGAGGG AGTCAGGAGT GCITTGGAAC TGGAGGTTTG CTTTCCACTG ACAACATCCA TATCTNCTGC  
TAATGCCAAC ATGCTCCCAA GTGTCTTAGT GGGTCCACA AAGTTGATCC AGCCAGAAG AGTTGCAGGG ACAGTCAAGA  
AACCAGAGGT GCTGCCACA TCCCATCAC TCCCTTTCCC AACTTCCAG CCTTGCCCCA AAAGCAGCAG CTCAGGACAA  
CCTGAGATAC TACTGTNATG GGTCCCCGGG AGGAGGACAG CAGGAGTCTG AACTCCAGAG GAGGGGAAT ATGGGTAAAA  
CAGAGAGATG GCAAGGAGAC AAGCTGTNCC CAGACAGAGG GATGGGAGG

SEQ ID NO:628: (Length of Sequence = 310 Nucleotides)

TTTTTTTTTT TGAGACAAGA GTCTACTCT ATCACCAGG CTGGAGTGCA GTGACATAAT CATGGCTCAA TGCAGCCTCG  
ACCTCTCAGA CTCAAGTAT CCTCCACCT CAACATCCCA AGTAGCTGGG ACTACAGGAG AGCCACCATG CCCAGCTAGT  
TTTTNACTTT TCTGCAGAGA TGGTGTTCCT CCATGTGCCC CAGGTGGGTC TGGAACTCC GGGGCTCCAG CGATCCTCCT  
GCCTCAGTCT CCCAGAGTGC TGGACCCACA GGCATGAGCC ACCACACTCA GCCCCAAAT CCATGATTTT

SEQ ID NO:629: (Length of Sequence = 443 Nucleotides)

CGCAGAGCAG AGGGTGGAAA GGCAAAGAGT ACAAGTGAGC GAGCCCTTTT TGTGATGGCG TTGATCTGTT TACAAGGGGA  
CTGCCTAAC ACITTCCATT AGCCCCACT TCCCAACACT GTTGCACTGT TGCAGTTAAG TTCCCAACAC ATGAATGCTG  
GGGACACAT TTAAATTAGA GCAGTGATGA TCAGAAAGTT ATTGTGGA AAGGAGGTTT TATTTTAACT TAAGTAGCTT  
GAAAAAGCTC TTCAAGGAGT TGATACAAGA ACTGAGATTT GAATTAGAGG ACOGAGTAAA GTGAAGAATC TGCGGGCAA  
GTCCAGGCA GAGGGAAGAG CAGGAAATGA TTATCATGTA GACTTGCTCT CCCATTCTCG GCAAGGGCTA TTTACATTT  
TCTTCCACTC TCTTCTCAG CACATCTCCA CTTGGTTT CTC

SEQ ID NO:630: (Length of Sequence = 263 Nucleotides)

TGGATGTGGT GAAAAGCGAA CACTATAGA CTGCTACTGG GAACGTAAGT NAGTACAACC TCTATGGAAA ACTGTATGGA  
GATTTTTTAA AGAACTAAAA GTATATCTAC CATTTGATCC AGCAATCCCA CTGCTGGGTA TCTACTCAA GGAATAAG

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TCATTACATC AAAACACAC CTGCACACAT ATNITTATTG CAACACAATT CACAATTGTA AAGATATGGA ACCAACCTAA  
GTGCCCATCA ACCCAATGTA GGG

SEQ ID NO:631: (Length of Sequence = 221 Nucleotides)

AATTTTINACA TATCAGTAAT TGTITTTTATA ATTGTGTGTT TINATGAAAC AITGCTATGC ATTTATTAGG AAAAAGTGA  
TTTCCCAACA GGTGAAGTGA AAAGNTATTT TAACTATTAT ACATAATCAA GATCCTGCCT CTACGGAATT AGCTAAACCT  
AAAAATGTTT GCATTAATGN ATAAATTCCT CCNGCATTCC TTGGGCCNGN TCTGGAGGTG G

SEQ ID NO:632: (Length of Sequence = 344 Nucleotides)

TGTGATGGAG ACAAACTATT CAGTATTGGG ACCCATGGGA GGTGGTCTCA CCTTACCAC AGGACTAAAT CCAAGCTTGC  
CAACTTCTCA ATCTTTGTNC CCTTCTGCTA GCAAAGGATT GCTACCCATG TINTATCACC AGCACITACA TTCTTCCCT  
GCAGTACTC AAAGTAGTTT CCCACCAAC ATCAGCAATC CTCCTTCAGG CCTGCTTATT GGGGTTCAGC CTCTCCGGN  
TCCCCAATT TTGGTTTCAG AATCCAGCCA GAGGACAGAC CTCAGTACCA CAGTAGCCAC TCCATCTCTT GGACTCAAGA  
AAAGACCCAT ATCTCGTCTA CAGA

SEQ ID NO:633: (Length of Sequence = 378 Nucleotides)

GGTCAGACCT GAAGCCGGCA CAGCGCTGTG ACTGCCCAAG ACCCCCACTG TAACAACAAC CCAGCTGCCA CCTATTTTAC  
TCAAGGCCCC AGGGCTCTCC AATTAGCAGG TAGTGAAGCC AGCCAGGCTT CTNCTCTCC CTTCAGTGCA GTAAGCTCCC  
CTGGTCCCTA GATGCATTCA AAGGTGCTGT CTGAGAGCCA GGGCTCTCAG TCATAAACCT TATAAATCTA CCTGGNGTTC  
TGTTCTACCA TCGCTGAGCT GGCATGAAT CCACCCGGCA AATCCCTTCC CACINTCCCC TCCCCTCTTN CCCAGGCAGG  
GTAGTCTGTT NCCACCTACG ACGTCATCAC AGTCTCATGC GGGATTACTG CCAGCTTC

SEQ ID NO:634: (Length of Sequence = 28 Nucleotides)

ATCAGTGGTC TACCACAGNT TAAGTAACGG GTCATATTG GAGTATCACA CATCTCAGTC TTGTAGAAAT TAGGNACAGC  
AATTAGGAGT CATGCACATA TANGAGATGT AATCCACCC TTGACTATA GCCTACTCTT GINTTTTACA GAAAAGACTG  
TGGNGGAAGA AAACCCTTTA CCCINTTNTT CAGGGAGAAA CTNACANCAC TCANCTGCCT GGCAGTGAAA ATNTGGCATC  
CAGTCCACTT TACCATCAGT GTTTAAGGAA ACCATCTCTG GTAAGC

SEQ ID NO:635: (Length of Sequence = 226 Nucleotides)

TTGGGATGAT GCTTTTATTA AACGGAAGCG TCCAAAAGG TCTGAGTCAA TGGTGGAGAG GGCAGTCAGC CCTGTGGCAT  
TTCAGGGCTC CCCACCGATA GINATCGGCA GTGCTNACTG CAATGTGATA GAGATAGATG ATACCCCTGA CGACTCCGAT  
GAAGGATGTG ATCCTGGTGG AGTCTCAGGA CCCTCCACTT CCATCCTGGG NGTGCCCCTC CCTCA

SEQ ID NO:636: (Length of Sequence = 367 Nucleotides)

AACGCAATAA AAAGACAAAT TCCAAAATGG GCAAAGATC TGAATAACA TTTCTCCAAA GATATGCAA CAGCCAATAA  
ATACATGAAA AGATGGCCAA CATCATTCAT TATGCATTGC AGAAATGTAA GTCAAAACCA CAATGACATA CCACGTGTCT  
CCCACTAGGN TAGCTACAAT CAACAAAATG GACAGCAAAA AGTGTGGTG AGGAGTAGAG AAATCTGAAC CCTCATGTAT  
TGCTAATGGA AACACAAAAT GATGGAGCTA CCATGAAAAA CTGCTTATCA GTTTGACCTC GGAAGTTAA ACACAGAAGT  
ACCATATGAT CCAGCAATTC CACTCCTAGG TATATACCCC AAGGACT

SEQ ID NO:637: (Length of Sequence = 384 Nucleotides)

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TTCATAAAAA TTTTACTTAA AATCTGTAAC GCTAGATATT GACTATCCCTT AGTTGAGTCA CTGAGGTTTA AACACAATGG  
 TAAGTCTTAA AGTCTGCTAT TTACAGAGCA TTGAATCTGT ACCAATTTGC AATAGAAAGC CTTCAGTATG CAAGAAGTTT  
 GCATGGGTAT TAAGAACACA GCCTAAATAA GGCATTGTAT CTAATCTGCA GGAAGAATTT TCTTCCCCAA AACAGAATTA  
 TAAAAGCTTA CTTTAAACAG GAGGCAGAAT AATTCTTTTA GGAACCAATT TCATTCTGTT TCTACTAACC TATACCATCT  
 GAGGAATCTT AGGGAGGATA ATAAAANTCT CGTGTATTCC ACAGCAAAC TACATACCCT AAAG

SEQ ID NO:638: (Length of Sequence = 409 Nucleotides)

GAAATTTTTC ATCAGCTCTT GTTCTCTCTC ATTCTTTTGG ACCTTGTAGA TTTATCCCTT TTTCTTAATT TATTCTCACT  
 TAATGGGATT TCAGGAGCAT ATTGACTAAG TTTTCATTTT TACATGTATA CTGGGGAGTA TGACATAGAC ATCTCTGTAC  
 TTAGATATTA CTGATGTAAG TCTACTTTGA ATCAAATGAA CAGATGTTTA AAAAGTATTG TNCCTAATTG TTTTAATGAT  
 TTCINCCGTG GAGTTGGGGT GGTGCTGCCC ATCACCACCT CAGGACGGGT ATTTGAAAAT ACCTGGGNNNA AATTGTAACA  
 ATGTCCTGGA AAACACTGCA GGATATTTTA ATGGGCAGA GGGGTCAAGG GGATGGATTA ACCATTGCCG AAATGTGAGG  
 GACGGGTCC

SEQ ID NO:639: (Length of Sequence = 197 Nucleotides)

GGTCTACTC ACGGCTCAAG AGCATGGCTC AGGAGGAGAT CCGCAGAGAG ATGGACAAGA TNATOGAGGA CCTGGAGCTC  
 TCCAACAAAC GGCACACT GGTGCAGACA TTGTGCGGTG GCATGAAGCG CAAGTGTACC GTGGCCATCG CCTCTGTGGG  
 CGGCTCTCGC GCCATCATCC TGGACGAGCC CACGGCG

SEQ ID NO:640: (Length of Sequence = 398 Nucleotides)

GAGAAGGAGT TCGCTCTTG TCACCCAGGC TGGAGTGCAA TGGTGGGGC TCGGCTCACT GCAACCTCTG CCTCCCCCGG  
 GTTCAAGGGA TTCTCTGCTC TCAGCCTCTT GAGGAGCTGG GATTACAGGC ACCCGCCACA CACCCAGCTA ATTTTCTATT  
 TCCAGTAGAG ATGGGGTTTC ACCATGTTGG CCAGGCTGGT TTTGAACTCC TGACCTCAGT TGATCTGCCT GCCTCGGCCT  
 CCAAGATGC TGGGATTACA GCGGTGAGCC ATTGGCACAC AGCCTTATCT GCATTTTCAA ACGGGCCAGT ATGGATGGGT  
 TTTACACTTA TACINGAAG GTCATCCTTT TNAAAAAANG AACCTTTAAA ACCATTAACT ATATATAAAA ACTATATT

SEQ ID NO:641: (Length of Sequence = 402 Nucleotides)

ATAATTTTNA GCAAAATGAT ACAAACACTNT NTTAACCAAG TAGAAGATTG GTAGTTACAG TGGAATCGTC AGGGAGTACA  
 GGGCGGCCAC CACTGGAGGG AGCTGAGGCC CTGGAAGAGG AGTCTGATTG TGTGCAATTC TCTCTCTGCT TTTNTTCCCA  
 GCCCCGTTAC AACCGAGTTC ACGTGGGGGG CCGCAGTGCA GCCCCAGCGG TGGCAGCTCT TGGAGTCTGT CCGTTTAGTA  
 TGTTTCCCCC ACGAGCGTGG CTGGGTGAGT GGCTTGAGGA GCTCCCGGTG TTAACATTTT GATCCTAGAC CGGGGGGAGG  
 TGTCACTAGG TAAAGGCCAT TGGGTAAACA GAGTAGATCA GGCCATGGCA TTTGTCTGGC CCCTTTCACA GCAATTAAGG  
 GG

SEQ ID NO:642: (Length of Sequence = 395 Nucleotides)

CTTCAATGAT GCAATTOGAT TAGCTGTGTC TTACAAACAG AACTCCAGG ACTTCATGGA TGAGATTTTT CAGGAGCTCG  
 AGAACTTCAG CTGGAGCAG GAAGAGGAGG ACGTGCCAGA CCAGGAACAG AGCAGCAGCA TCGAGACCCC ATCAGAGGAG  
 GCGGCTCTC CCCACAGCTG AGGGGCTGGG GCTAGGGGTG GGTGGAGCCC TTTTAAATA CCCTTCCCTT CAACAACCTCT  
 CCAGCTCTGA ATGGAGAAAC TCTCTAGGNC ATCCCTCTT CTACCTCTTG CAACCCACCC ATCCTATTAG GCTNCCACAT  
 TCTAGGGCCC GTGATACAGG GGATGAGGGT CAGCAACCAG CAAACTCTIN GGACTTGTG GGAAGAATTT TCCCC

SEQ ID NO:643: (Length of Sequence = 325 Nucleotides)

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GGTATCTTAA AGCCTTTTCAG GGATTTCAT AGACACATTT CTTTAGCTGA AATCTATTCT CTCAGAACT TACCCAACT  
 TCTTAATAAT GTNCAAATTC TAAGAAAGAT ATCATGGCTA CACAGCACCA GGNAGAGCAC ATTATTTCTC TTCACAATTC  
 CCTTGCAATAG CATCATGGCT TCCTAAGGCG TTTTAAGTIT ATTGCTTCAA CTGATTCTCA TAAATCTCT GAGATGCTAT  
 CTGGAAAGTA TTATTATCCC CAGTTTGAG ATAAGGCAAC TGAGGTCTAG ACTTGCTAAA AAATCACACA ACCAGGTAAG  
 TGGGC

SEQ ID NO:644: (Length of Sequence = 373 Nucleotides)

CTTCACATCA GCAGCCGAC GAGGTGACTG AAAATCCAAA ACAGAAAATT GCAGCAGAAA GCAGTGAAAA TGTGATTGT  
 CCAGAGAATC CTAAGATGAA GTTGGATGGA AACTTGACC AAGAAGGCAA TGATGTAAAA ACAGCAGCTG AGGAGGTACT  
 AGCTGGTAGA GACACATTAG ATTTTGAGGA TGTCACAGTT CAATCATCAG GCCCGAGGCG TGGTGGTGAA GAATTAGATG  
 AAGGTGTGC AAAAGATAAT GCTAAAATAG ATGGTGCCAC TTAAAGCAA TCCTNGAAGG ANCCAGAGGA GCGAAGGATG  
 CAGATCACTG CACCCGTACC CCAAAAATTG GAAAGTCCCC TCACAGGCCA TTT

SEQ ID NO:645: (Length of Sequence = 310 Nucleotides)

TTTTTTTTT AAGACTCAAG GTAATGAAAA CTATGAGTAG AATAGTAAGG TGTGACAGGG GACAAATAAG TAGATATAAA  
 ACTATGCTGC AATATTTTAG TTATTAAAGC TGGGAAATAT GCAAGTGTAA GTAGTGCTTG GAACAGAGA AGGTTCTATA  
 TTTAGCTGTT CTCTGTAGC TAAATCTGAC AAATGAAAA ATATCATATT CTCGCTCTA GGTACATTTT ATGTATATTT  
 TGACAGCATA TCAATATAT GANACATTAG GTTAAATAAA TAAAATCCA GTGGGATAAA CTATATGGGG

SEQ ID NO:646: (Length of Sequence = 362 Nucleotides)

CTTGGGATTG CTAGATCAGT GTTTTAGACA GGAATGCCAA GGCAGAAAAG AATCACATAT CCAGGACCAC ATAAAANCTG  
 GAGTGATGT CATAACAAAT TTNCTCCTGT GCCTAGAAGT TTTATGGCTT TGGATTTTAC ATTGATGTT GCAGTCCATT  
 TTGAGTTACT TTTGTATCT GATATGAAAT ATACCCAAGT NCATTTAAAA AATAAGATTA TACAGTTGTT TATGGAATGC  
 ATTTATGTAC ACGGGTATC TGTTTGATT TTGTGTGAT GTTAAACAT CTTTATTATA GTATTNTGTA AGAGTAGGTT  
 AATATTGACC TTGGGCATTT TTAACCAAG GGGGAATTT CC

SEQ ID NO:647: (Length of Sequence = 226 Nucleotides)

TTTGGCGTC AGATCTGTAA GTTTATTGTC TCAATGTACG ACAGCTACAT AATGNTTAC ATTCATGATA TTCCATCACT  
 GAGGAACTG CTAAGATGG TCCGTGTGTG AAATAATTCC TTAGAGAAAC ACGGAGCTGG AAAAATAATC ACTGATTAGA  
 CCTTAAAAAT AGTTCCTGC ATAACATGNC AAAAAGCACA AAGGCTCATT CAGAGAACAT ATTTGT

SEQ ID NO:648: (Length of Sequence = 198 Nucleotides)

AACTAAAAAG TTAACATTT TACAAAACAA CAAGTTTCC TTAATTTATG ATTTGTTATT ATAAAANCTA GTAAGAAAAA  
 ATCCACCAC ATGAAAGCAT TTNCTAAAT TCATACCCC GTACCTATTT TTAANTACAG TTGGTAAAT GATTAAGCTC  
 TATTINCAIT TTGANTGATC ATCGGTTTA TTTTATTT

SEQ ID NO:649: (Length of Sequence = 337 Nucleotides)

ACATCTGCAG CCATATATGA GGTCCCTCAT GAGACTTAGC AACAGGIGT GTTTTAATGT GACAGTGTGT CTGATGTGTC  
 CCCAGCACAT TGGGACCACT ACACAGTGT ATTTGTACAT CTCTGAGTA ACATTGAGTG TGIGGGTAAC TAAAGCCCTC  
 AGTAATTATT TTAATTAATG TTTCAAGCT TAATCTGAT CTGTACTTG CATGATTTAT TATTCCTGT GCTAAATCT  
 TCAATGTTCT TGCCTTGATT GATCTGTCAT TATCTATCAC TTAATAAAA TANTAAATNC CTTTAATTAA GTCATGGTTA  
 AATGAGGGAC TTTGTTT

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SEQ ID NO:650: (Length of Sequence = 286 Nucleotides)

GGGTTGAAAG GAAAGGTGAC AGGAAAGATG TGTITAGCAT CCATGAGCAG CTGGGGAGAG TCTTTCCTGT CTCGTAAACG  
CATCTGAGAA GATTAGGAAA AAAAATAAAC AGAGCATCAG TTCTTTGAAT CTAAGAGACT TTTTCTACT AAAATTTCTA  
CCCTCAAATT CTCAACTAAT GAAGANIGTT TACTTTTGIT TTAAACTCAC TTCATTTTCC CAATTAACTA TTATCAAAAA  
AGTTAGTGCA TTGTAAAATA AGNTAATAAA GGNTAACACA TTATCC

SEQ ID NO:651: (Length of Sequence = 360 Nucleotides)

GATAATGTAA ATTTTTCCTT CTGGGCTTGT CATCAGGATT GCAATTTTNA GATTTAGITT GCTAATITGT TGGCCCTTGA  
AAAATTTATAT AACTTGGTT TGTTTTGGTT TTCTTAAGTC AAAACAAGGA AATAAAATCA CATTTGCTTT CCAAGAAAAG  
ATAATGTTTA AGTGGTTGTT TAGTGTTTTG TGTCTTTGGG GGTGGGAGGG GGTGTGTGGA ATACACAAAC ACACACACAC  
AAACACACAC AGTCTATATA TAANCITATT GGAGCCATCA CTATATTTTA AGGAAAATGN AAATAATCTA TTGAAGCTTT  
AAAATTAGGA ATTTTGTATT TAAGCTAAGG AGCCTATTTT

SEQ ID NO:652: (Length of Sequence = 353 Nucleotides)

GTGGTGGGNN CCTGTAATCC CAGCTACTTG GGAGGCTGAG GCAGGAGAAT CGCTTGANCC CTGGAGGCAG AGGTTGCAGT  
GAGCCGAGAT CGAACCACTG CACTCCAGCC TAGGTGACAA GAGCGAAACT TTGCCGGCAT TTACACTCTC AAAAGATTTA  
ACGCAATTAC AATCAAAAAA CACTTGTCTAT ATATAACACT TTTTCACATG GAAATAAATT GGTGGTTTAA GGTTTACAAT  
TCCTTTGAAT AAAATTTTCA TTATTAGTTA CAAAATGCTA AGACAGATTG AGGTCTCAA GAAAGANCIT TGAGGAAAAT  
TTATGGTTTT AAAGGGACTT TCACCAAATA TGA

SEQ ID NO:653: (Length of Sequence = 224 Nucleotides)

AAGACAGGGA NTACTTTATT CAAACCCAT CACAGAAATG GACAGCTTGG GTCTGTAAAC AAGCATTCAT GTTTTAGNCC  
ATAGGTCAAT AATTGTATAT GAGAGCATAC ACTGCTACAT ACAATTAAC TGNICAGACC ACAACTTTTC AATGTTTAAA  
ACAGNATAAG CTCCCTGTGA AAAGCAGCAC CTTTGTGTAC GNTTTAATT TAGTATTCCT CTCC

SEQ ID NO:654: (Length of Sequence = 353 Nucleotides)

GTCAACTCTA TTTTCCATAT GAATTATTAG ATTTGGTGTCT GTCTTGTGAA GTAACITGAT ACGATAGATG TGTAGTATGA  
ATTTTGTCCA CATGGTTGTG CCGTTGGCAG AACTGCACGT ACCTGAAATG GTTCCCTAAT TTTTTCCTAG TATTACTATC  
CAACACTTCC TCTCATAATC ACTAGTGTAT TGTATAATTG TTAAGTGTCC TTTATTCATA TATTTAAAT AAAAGAATAC  
TCTGGTAGGA TTTTGGGGC CAATAGTGT TTTCCACTGT TTGAGGTATT AGGAGGGCTA TTTACTGATA CCTGTAGTGC  
CTTCCCATTC TGGTTTATCA TGCACCTCTA AAT

SEQ ID NO:655: (Length of Sequence = 365 Nucleotides)

GAAACTNACT TCACATTTCT CCAGGGAGGG ATGCTTTTGA AAAACTGCTC AGTGAGATGA AGCACAGATC TGCTTTTINAT  
CCCTTTTGTG CCTTTTAAA GACATAAGGT ATGTTTGTGAC ACTGGAGTAT ATATGAGGGT TGCTAACGTT TAGGTTGAAA  
GAGCTGCTGT TGTCCACAGC TTATTTATTT NCCACCCATT TTTGTCTCCT GTCTCATCC AGTTACATTT CCTGGGATAT  
GTTTTTGGAG GTTGTCTAGA TCACGGCACT AGAGTCCCTT TGGGTTTCTC CTCCCTCCTC TGTCTATTTG GCCTCGCCCT  
TGACAAACAT TCCCCACATT CACAACCAGG CCTTTGGCTA AATGT

SEQ ID NO:656: (Length of Sequence = 372 Nucleotides)

GTCATGAGTC TGAGACCAGC CTGGCCATCA TGGCAAAACC CTATCTCTAC TAAAAATACA AAAGTTAGCT GGGTGTGGTG  
GGGTGCACCT GCATTCTCAG CGACTTGGGA TGCTGAGGCA GAAGAATCGC TTAAACCTGG GAGGCAGAGG TTGCAGTGAG

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COGAGATCGC TCCACTGCAC TCCAGTCTGG GTGACAGAGT GAGACCTTGT CTCCAAAATA AAAGAAATTT ACTGCAAAGG  
 GATGTTGCAT TTCAGGTGAA TGTATGTAGC CTTTCAGAGG CCGGGCTATT TATTAGATGT ATTTTATAAC TGAGGGTTCT  
 AGGTAAACAC AAGCCAAACA GATCCACCAG AAGCCTAGAG CTGTGGACTC TT

SEQ ID NO:657: (Length of Sequence = 334 Nucleotides)

GGTTGTGGAA AAAAAAACCT CCAGATAAGA TTGTGCCCTG TCAATTTTCT TGTGAGGCTG CCCAGACAAA GGTACTTTTC  
 CTGATTGGGG ATTCTATGTC ACCTGATTCA GATACTGAGC TTCGAAGTCA GGCAGTGGTG GATCAGATT A CCAGACATCA  
 CACCAAACCA TTGAAGGAAG AAAGAGGGGC TATTGATCAG CATCAAGAAA CTAAACAAAC AACCAAGGAC CAATCTGGAG  
 AGTCTGATAC ACAGAAATG GTTCTGAAG AGCCCTGTGA ACTTCCTGT TGGAAATCAIT CAGACCCAGA AAGCATGAGC  
 TTATTGAGC GATA

SEQ ID NO:658: (Length of Sequence = 286 Nucleotides)

ACAAACCAAC TGCAATTTCT TCTGGATAAT GTGAACAAA AATAGCATTC AGTTTACCN CTAGTGCTAA CAGAAGNENC  
 TCAAGCTGTT CCCCCATCAT GGGNCAGCC CTTAACAGAG GGCTGCACAA ATCTGCAGTG CTGCTCTGGG GAAGGCTNCA  
 AAGCACITTT TTCCCAAGAA GGGATGCTGT TCANGTCTGT TAGGGGAAGC ACACCGNCTN TGCTGGGCA CAGATGAAT  
 GCCCTTCAAG GCAATCATCA TCTTTTCT AATAGGGAAG GTTTGG

SEQ ID NO:659: (Length of Sequence = 321 Nucleotides)

GGTCTTTATA TGTTCCGAG ACAGGACTGA AACTCCCTGC CTCAAGTCA TTTTCTAAG TAGCTGGGAC TATAGGCTGT  
 TCTTTTTT AAAGGAAGGA TTTTATGTT ATCATGAAGG AAAATAA ATTGGCTAA CTTAAAGAGT TATTATCAG  
 GAGACACTAT TAAAAAAGG CAAATCAGAA ATTGGAGAA ATTTTTA ATACTGATAA TAAGACAGAA TTGTACCTG  
 TAACCATAAA TATGTAGAAT TTCTACCATA TCAATAAGGT AATAGTTTCT GTTGTCCAC ATCTCTTC ACGGTGGGT  
 A

SEQ ID NO:660: (Length of Sequence = 302 Nucleotides)

TTTGTTAAGG ACATAATGTT TTTGACTGGG GATCATGTT GGCTGATGTA AATATTAATG CCAAATAGG AGCTAGGATG  
 AAAGTAACAC TGAATTAAGT AGTAGAATTT ATTCATATT AAAATGTGTC ATGACGTAAT TTTTATGGCT TGGCTCAAGC  
 AACAATTTTC AGAGTGCAAC CTCATTGATG CTAATCAGAG AGACGTGGAT GTGCTGTAC TGCTTTCTAA CTCTGCCTAC  
 TACGTGGCCT ATTATGATGA TGAAGTTGAT AAAGTAAACC AGTATCAACG NCTAAGTCTA GG

SEQ ID NO:661: (Length of Sequence = 249 Nucleotides)

AAAAAAAAA ACTCTCAAGG GTCTAACTTT ACCCATCATA AAATAATTTT GGTGCAAGGG TAGTGGCACA TTTTATTTAT  
 TTGGGATACC ATGCAGATGC AACCTAGCCC CATTCCTTAT GCAAAGTAGA TTATCCGTGC ATTCCTCTG CATTGNTAGT  
 GAATCCTTAC TGGGNCAC TCATTCAAT TGGCAACAAT CTTAATGNN CAGGCAATAT ATAACATGC TGAAGTCTCT  
 TAGCACTAA

SEQ ID NO:662: (Length of Sequence = 340 Nucleotides)

TTTTTTTTTG GCAGCCTTGT AAGGAGAACT TCACCAATTC CCAGCACATC CCTATGTGTG CGCTATTTT AATGCACCTC  
 TCTGAAACAG AGACCTTTT GTTCACAACC ATAATAAG CTGGAAAGTC AGTCTTCAGG CAAGGCGAGG GAGGAAAACA  
 TCCCATTAGA ATTTTTTCAG GAAAGACTTA TGGNAAAAA TATCTCTCTC CCACCTCCTT TTATCCCAT GAGACACAGT  
 TTCCCACTGT AATCAGGTA ATATGCATTT NTAAGTNCIG ATATGTGATA CATTATGTG ATGGCAAGA TAAGTCTGT  
 TTGCATGCAG GGTACTAGAG

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SEQ ID NO:663: (Length of Sequence = 325 Nucleotides)

CACAACAATT CTATGAAATT AGCTGGGGAG ATACGTGCTT TATTTTTCAC AGCTGAAGAA ACCAAAGCTT TGGGAAGTTT  
 GTGACTTCTC TGAGATCACA GCTGGTGATA GAAGGAGCTG GGACACGCGC TTGGGTTGAC TGGCTTCTGG TTTTGGTTCCT  
 CTGGCTTCTA GTGCTGGAAG AAGCCCTCTC TTCCCTTCT CTTTCTCTAG TAGCATCTGA CTCTTTTCAT AAGCAAACAG  
 CTGTATAAAC AAAGCCCCCA TTTTGGTCAA GCACAGGGTG AATGTGATAT TTGTTCCAC AACCTTATTC TNCATCAAC  
 AGCCG

SEQ ID NO:664: (Length of Sequence = 300 Nucleotides)

TTGCTGAGAG AGATGATGTT TCATGGGTGA TGTCTCTGGA AGAGATTGGA TAGGACCCAA GCACAGAGCA AGAAATTGGC  
 TTTAGGCAAG TCAGATTGTT CTTATACTAG TTAGGAGTAA AGAGAAATGG ATGATACAGA TGCAGCTATG TTCGTAGGAG  
 GGAAGTGGAG GGAATTTCTG TGTGATGGCT TTAGTAATGT AGGCAGCAAG GTCAACTACT GACAGTGAGA GGAGAAATTC  
 GGGGAGGCTG GTCACAGTTT GAAGTAATAG GTCATGGGGA GGCAGATGTT TGTGGGTGGA

SEQ ID NO:665: (Length of Sequence = 327 Nucleotides)

CAAATAAGAA CCCAGAGAGA GGGAGAGATT CACAGACAAT AGCTTAAAAA GTCTAGAAAT TATAGACCGA TTGAGGTCAG  
 CAAGAAACAA ATTATCAAT ATATCCCCTG AGGGCTAGAG CCAGACTTTC CCCATGATT CCAAAATTAC TTCGAGTTT  
 CATTAGGGTG AAAGGCAAG CAGTCTCATG AGTTCAAGAA GTAAAGGTTG TTCCTTAAAA TTTAGATAGA CTTGACAACC  
 ACTTAGGATG GCATTTTGGC ATTCTGTCCC TGCTCATCAA AGAAGTTGCT CAAATTTGTG GGNATAGAGGA ATGAGGAGCA  
 AGAAGTA

SEQ ID NO:666: (Length of Sequence = 319 Nucleotides)

ATTCCCAAGG AGAGGCTGAG ACAGAGAGGC TTGAGCTGT TCCTCAGCCC CCTACCCFAA CTCCCTCCCT ACTGTGATC  
 AGGCTGGTCT CTAATCTCG ACCTCAGGTC ATATGTGTGC CTCAGCCTCC CAAAGTCTG GGAATTACAGG TGTGAGCCAC  
 CATGCCGGC CTGGGTTTAA TCTTAAGGTC TTGTGTGTGC TGTTCATCT GCATGAATAC ATTTCCTCA TTTACTTACG  
 TCTTAGCTTA AATGATACCT CCTCTCTTT CCTACTGCCA TTATCTTCCC TTGTCACTCC ATACTCAGAT TTCATGCA

SEQ ID NO:667: (Length of Sequence = 288 Nucleotides)

GGTGGCAGGC TGCTTGCAAT NCAACGCCAG GNGTTTCTG ATGGGTGAGG GTGGGGAGGC TGCACACCAC ACAAGGTCAC  
 CCTACTCTAC CTTCTACCCA CCTACCACA GCGCTGAGCT CACCACTCCC CCAGGGCATG GGACTCTTGA TAATTCCAAG  
 TCCATGAAC CCTACAATTA TTGCAGTGGG TATGANTCCT TCTATGAAAG TACTTCCCT GAGTGTGCCA GCGCTCAGTT  
 TGAAGGTCCC TTAAGTCTC CCCCATTAA CTATAATGGG GATATTTT

SEQ ID NO:668: (Length of Sequence = 212 Nucleotides)

TCNTTTCINT TTCTTATCTA TCINCTTCAC CATGTGTCTT CGGGGCTGG AACATAGTAG ATGCTCAATA AATATTGATT  
 GAATGAATGA ATGAATAAAT CTNCTTACAC CTCTCATGCT TCAAACAGGG AAAGGCTAGA TTATTTAGAA GTCTTGTGCG  
 GGATAATAAT NAGCTCAGTG GAAGCCCTCT AGTCTCACT CGAGTTTCTC CC

SEQ ID NO:669: (Length of Sequence = 281 Nucleotides)

ATCTTTTCAA CCTATCAAT AAGATGTTAT GAAAGATTGG TTCTCTGTT TACAAGTAGT ATAGAATCTT TTTTGATCTT  
 TGAATCTGTG CTGCTTATCT CATCAATGTT GTTGCTATTA ATATCTGTCC TTTAACACTG GATGTTGGGA TCTTAGTAAT  
 GTTGCTGATA ATAGGATTTT CAGCAAACT TCCATATCCC TTGAAGATAT GGTAGTTTAT ATTACTATAT CGATAACAGT  
 TTTGCCGTGT GAGATTGAC TAGTTTTAGG TGTGGAAG C

SEQ ID NO:670: (Length of Sequence = 234 Nucleotides)

AATAAAGTGG GGATATTGA TGGTTTCTT TTCTGATCTT TATGCTGACT GCAGTATCAG ATACCATTTC ATTGTTTAAA  
AATCTTCCTT TTTTTTTTTT TTTTTTTTGG CATTTTGCTC TTTTGTGATT GTTCAAAGT CAAGTTGATG GCCNCAAAT  
TCCAGAGGCT AAGCAATGCA GAAGTTTCAT CTACTGGCAG CTAGTTTTAT TTCTTAAAAA TACATTAAAT TAGG

SEQ ID NO:671: (Length of Sequence = 252 Nucleotides)

CCTGAAATGT AAATGTTTT TAATATATTT AAGAGCACAC AGAAGTCTTG ATTTATAAAA AAATAAATAT ATAACATGAC  
AAATTTACTG ATGATCCTGG GGCTCTGAGG TCAAACTCTT TAAATGATCA GTGAAAACAT AAAACATCCA TGATCTGTTA  
ACACACACAG GGGCATATTC CAGTTGTAAA AAACAANTTC CTGAAGGCT CAGNACGTAC AAAANICAGT NTTTNGGCA  
GAAAGCACAT CC

SEQ ID NO:672: (Length of Sequence = 366 Nucleotides)

CCATCCAAC ACTTACTCAA TCCTCTTGAA ATCTGCCTTT TGTAAATGTAA CTGATAGGCC AGCGTTTTCT TTCACTGTGG  
GAAATAAAGG CTACTGGT GCTTTAGGGA GGGCAACAAT GTCAGCTGCA TAAGCAGCAA GAATATTATA TTNATTACT  
AGTCCACCTT TAATAAAGAG AGAAACCTTA GGAAATGGAA AGAGGTGTCT GTTTTATATT TCCTTTGCTT TTCAACCAAT  
GTTTAGACAC TCTCCCTTCT AGTGCTTGA GAACCTTCAT GGAAACTCTG TTCAGGTTCT TGACTCTCAG CGACANATGT  
GGAGGTCTTT GTGGTCTTAG CTCTCTAGGC CTGAGAATCA CATACA

SEQ ID NO:673: (Length of Sequence = 349 Nucleotides)

CCTCCCCTCT TGGCCTCCCA AAGTGTAGG ATTACAGGCG TGAGCANCCA CACCCTGCCT GGTGTGTAC TCTTTTAAAT  
ACTAAGTTTT TAATGTTAAA TGCTGCTTTT AGATACACTG TAAAAATACA CCTATCAATG AGTTTTTTTA TTTAAACAT  
TGCAATTGTA CTAGNCTTTA AATACTAAGC AATAATTCAG GCTCAATGT TGGTTTATAG TTTTCTCATT TCTTTCATT  
AATACCTCTG TAAATGAAG CAGTTACTTC CATTTTCTCT AGGTGAGATA AGTGCCCTGC ACAAATGTTA TAGGNCCAGT  
AAGTGAGGAC TGGAGCTCTG GATCCTAAT

SEQ ID NO:674: (Length of Sequence = 256 Nucleotides)

GCACTTTGGG AGGCCGAGGC AGTTGGNTCA CCTGAGGTTA GGAGTTTGAG ACCAGCCTGG CCAACAGGGT GAAACNGTN  
TTCGTCTAAA AATACAAAAN TTAGCCGGGC GTGGTNGTGC ATGCCCTGTAG TOCCAGGTAC TCAGGNGGCT GAGGCAGGAG  
AATCACTTGA ACCCGAGGTG GGGCAGGNGG AGGTGCACT AAGCCAAGAT CGCGCCATTG CACTCTAGCC TAGGTGACAG  
AGTGAGACTC CATCTC

SEQ ID NO:675: (Length of Sequence = 292 Nucleotides)

GAAGTCATTT TAGACTCTCA ATTTTAAATT AATTTGAAT CACTAATATT TTCACAGTTT ATTAATATAT TTANTCCTA  
TTTAAATTIN AGATTATTTT TATTACCATG TACTGAATTT TTACATCTG NTACCCCTTC CTCTCCATG TCAGTATCAT  
GTCTCTAAT TATCTTGCCA AATTTTGAAA CTACACACAA AAAGCATACT TGCATTATTT ATAATANANT NGCAITCAGT  
GGCTTTTTTA AAAANTGTTT GATTCAAAAC TTTAACATAC TGATAAGTAA GA

SEQ ID NO:676: (Length of Sequence = 392 Nucleotides)

ATCAAAGATT GCAAACATTT ATTTTGATCC TGGACTACAG TGTGGGGATC ATTGCTATGT TGGCTTGCCCT TTNCTATCCA  
AATCTGAACC CAAAGTGACG CCTGGTGTAG CCATGCAGGA AGATATGTGG GATGCTGACT GGGATTTGCA TCAAAGCCTG  
TTCAAGGGAT GGACAGGAAT AAAGGAAAAT NCAGGTCATA GATTGAGTGC TATATTTGAN GTAAATACAG ACCTTCAAAA

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AAATATAATA TCAAAAATCA CTGCTGAGCT CTNCTGGCCT TCCATACTTA GCTCAGCCCG GCACTTGAAA TTTCCACTTA  
CTAATACAAA CTGCTCCTCA GGAAGGANGA GATTACTTTA GNAATCCTT GCAGGATGTT CTTGTCTATG GT

SEQ ID NO:677: (Length of Sequence = 333 Nucleotides)

CGCATGCTAA TTAAAGATA TACAGGAAGN GAAAAGTAGG AGTTAAGTTG GATGTGTGTA GAAGTTGGAT GTTAGTATTA  
CCTTCAGGAA CAGATCCCCA TGGCATGTCA CAGGCCTTAA TTATATACCT GGCTTTCTTA TTGTCTCCAC TTTATCATGA  
GGACAAGGTC TTGGTTTCAT GGGAGGAACT TCTCCATTGA AATAAATGTC TGCCATGTCA GCACCGTTTG TNCCTCAGT  
TTAATATAA TGGACCATAT ATTAAACATN ATTAAACATA TTTTAAATN TGGTGTCACT AGGTAGATGC CCCAGNCATC  
CTACTTCCCT CAC

SEQ ID NO:678: (Length of Sequence = 359 Nucleotides)

AAGGAGACAA AGAGTAGATA TGGTATCTTG GGGACAAATG GCACATGAAA GCAGATTGG TGCTTCTTTG GTAAATGGTT  
TGATAACCAA TCCCTAGGAG ATAAAGTTAA TGTGTCTTTT TTTTTTTTTT TTAANCGAAG GTCCCTTACT GGTCTGCTT  
CCATGAGTAG CCGTGACCAG GGGAAAAGGG AGAGTTTTTT TTTTTTTTTT TTTGAGAAAG AGNCTCACTC TGTGCCCCAG  
GNVGGAGTNT AGTGGCATGA TCTGGCTCA NINCAGCCTC TGCTCCAG GTTCAAGCGA TTCTCNTGCC TTAGCCINCC  
GAGTNGCTGG AATTTCAGGC GCATGCACCA TGCTGGCT

SEQ ID NO:679: (Length of Sequence = 339 Nucleotides)

GGTGGCACAT GACTATAGTC CCAGCTACTT GGGAGGATGA GGAGAGAGN TCACTTGAGC TGGGGAAGTA GAGGTTGCAG  
TGAGCTGAGA TCTCACTACT GTACTCCAGC CTGGATGACA GAGTGAAACC CTGTCTCAAA AATAAATAAA GANAGAAAGA  
NTATAAATAT TTTGTATCAA TTTTCAGCTT TTACAGTCAA TGAACTTAAG TCTTAATTTT GGTACAGAA TTAATATTA  
ATATTAAACA TCAAGGCAAT GTAAAAGTAA AGTACAGTTG ACTGAAGCTG GGACACAGAC GGNAAAGAGA GTGAATGAAA  
AGAAGGATAC TAATATTCT

SEQ ID NO:680: (Length of Sequence = 356 Nucleotides)

CTGTATAATC AGGTATATCA CAAAGTCTAT AGTCTCTGAG ACATGGGTGA GTAGGTGTGA GCACCTGGTG AAACAGGTCA  
GAGGAAAAGC AAGTTGGCGT TGGAGTCAGC TGTCAAGAGA TAGATCCGTG ATGGTATCGA GATCACTACA GACAGGTGGT  
GGTACCTAGT TGTGTCCGC TGAAATTGG AGGGTTAAT TTTTAATCCA AATACCATAG AAATGGATAT GAAAAGATGG  
GTGACACATG CTGCACGTTG GGAAGTGGG ATGACCAGGT GCTTAGTTGC ATGGGAGAGG CCACAAGTGC TTGGCAATGT  
TTTGTGNGAC TTAGCCTCTC ATCTCAGGAA TTAGCT

SEQ ID NO:681: (Length of Sequence = 345 Nucleotides)

GGCCTGGTGT TTGGCTGAGG TGCACTAGGA CCCCTGGCGG TGGTGTACTG GATGGCATCA GTTCTGATGG GTCANATGTC  
CATTTCTAACA GGTGGTGCT GGAGAGGAG CAGTTGTAA ATATCTTTAC TATCTCCCCT NCTCCGACA CCTAGATGCC  
CAAATATACA GCACGTAGTA TCGAGGCAGG CCTTTTGAT TGACATCAGA ATCAGGTTTG CAATGGAATA GGAGCTTTCC  
TTCTCTGT CACTTAGCC CCAGGCTCCA CCTCANAGTC TGAATGCTC ATACCTATGG CAGGTGACCT TGTGTAACAG  
NTGGGGTTA ATGCCATTCT GTCT

SEQ ID NO:682: (Length of Sequence = 302 Nucleotides)

CTCAGACATA TCTTTTTTC TCCTAGCATG ATGCCACCC CAAGGTACTT ACAGTCTTC AACACACCT TCCGACAGC  
TTCTGGTAT CTTGTGGC TATCTGGTG CACGGAATA TTCCATCTT TTGAGATAAT GGGGGAAGC CTAGTAGCT

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CTGGTTCCCT CTGGTCTGAA ATTAGAGTAG ACTCGTTCTG AGTACTTGGC AAATGACTAT TTGATTCTCT GATTCCCTGG  
NCTCCATGCT CACCAGATGC ATAGCAGGGA TCTCTCCTAG NCACTCACAT CCAATTTTCA GG

SEQ ID NO:683: (Length of Sequence = 329 Nucleotides)

GATTTTAAAT AGTTAAACA TTTTITTTAA TCCATAAGTA ATTCTTACTC TACTCATTTA TACACACATA TACTCACATG  
TACACAGACA TACCTACACA CACACTTATA AATACATGTA TACACAGAAT ATAGTAAGGT CTTTTATCCC TTTTCAATGA  
AATAAATATT GTATTCTATA TTTAGNATAA ATAATGTGA AAAAGTGATT TTGGAGAAAG GTTGAATGA TTGAGTCTTA  
AGTGTGTCAA TGTATAATCT ACCCCTTTCT AACATCGTG TTTTAAGTAG TCATCTTACT TCAGAAATTA GAGGCTCAAT  
GTGTTTAGG

SEQ ID NO:684: (Length of Sequence = 281 Nucleotides)

AACATGGCTG ANTTGAGATT AACTGCCAT GATACATTGN CTGACAGCAC TTCACATTTT CCTGAGTTG GGGACAGAAA  
TCACACTGCC CAAATACATT ATCTGATGGC TCTCATGTT TCCCAAAAGT TAGGAAAGGA GGTCTATAT ACATACATGC  
ACAAGTGCAT ACACACACAC ACACATACAC ACACACAG TGCTAGATGA GATGTTGANT GNCATAAGGA AATGAAAGIN  
CCATCTCTCT NTNCCCTACC CCTGCATCT GTCCCTTNAT A

SEQ ID NO:685: (Length of Sequence = 324 Nucleotides)

ATTTTAAATA ATTTTAAACT AGCTACAAA TGTCATCAC TTCACAACT GACAGAGGAG ACAGGAGGAA TTTAATATTA  
CATGCTATAA TGATATTAT CTCACAGTTT ATATTTCATT CATTATATT ATTTTITTA AAGGTTCTT TATCAGCTAC  
TAAACATCTC AGCAATTTGG TGTGCATAGC TCTAGATTAA GCAACAAAGN ATTGTACTGA TAACAAACCA CAGGGGAAAT  
GGTGGTTAGT AAGAGTCAGC CTTATAAAT TTACATCCAC ACTGTTTTCA CAGCAAGNIT GCTCTCTCCA AAACGGTGGN  
CATC

SEQ ID NO:686: (Length of Sequence = 380 Nucleotides)

CGAGGAGGAG GAGGAGAAAA TTCCCCAGA TTGGGGCAGG CCGGCACCCC ACATTCCGTC CTGTTTIGAG AGGAGGAGGG  
AAGAGAAATA AACGTGGCAG CGCATAGAAG GCCAGCAGGG AGACTGCTTT CCAGACACCT CCGGCCACCA CAGCCGTTCA  
CCCCCGTTT TTTCAGTCTT GGAAAGGAA TTGGGGTCTG TTTTCTTTT GGGCTCTGTG CAACINCAGC TACAGTGGAA  
AAAAGCAAAC TGCTCTTGAT CCCAGGCCCT GCCTAAGCCT CAGCAGAACT TNAAGCCTA AACTINAAGA GCCTCACCCG  
GACGAGCAGG CATNCCTTAA CCTTAAAGCA ATCCAGTTTC ACGGCCCTGGT TCAGTGGAAT

SEQ ID NO:687: (Length of Sequence = 305 Nucleotides)

GACACTTCCC CTCTTTTATG GAAGCATAGT AAGATTTTTC CTTTATGGCG ATCATGATGG AGAAGTATAT GCTACAGGAG  
GNGAGGTTCA AATTGCAATG GAACCTCAGG CACTATATGA TGAAGTAAGA NCTNTGCCAA TTGCAAAGCT GGATAGGACA  
GTTGCTGAGA AAGCTGTATA AAAATATGTA GAAGATGAAA TGGCAAGGCT CCCTGATAGA TTGTCAGTAA CTGGCCTGA  
AGGAGATGAA TTATTGCCTA ATGAGATTAG GCCTGCTGGA ACCCTATTG GTGCGTTAAG AATTG

SEQ ID NO:688: (Length of Sequence = 390 Nucleotides)

GAAGTCATAA GGCCTAAATA TTAATCCAGT CTGTGACAA GACAAGGTGA ATACAAGCCA GTCTCTACTT CTCTGGGCCT  
CTGTTTCTG CACTTTATAT AAAGATTGGG CAAGATGGTC TAACTTAAAT TTTATGATTC ACTAAGTGA TTTTGTATGG  
GGCAGATTTT NCTTCGATGA AATAITAA AATAAGNCAC TCAATAAAT CAGCAATGGG GTGCAGATGA GGAATACCGT  
TTCTACAGCA AAATATGGGT GAACTCAGTA AGTGTAGENA CACAGAAATT AATGCTGACC TCTTGATAG CATGTATGGG  
ATATTAAATC ATTTCTCTGCC TTCCATTTC GGGGTGAGGG AGGAACAGCT GTTCTGAACT TCTTTTAAGG

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SEQ ID NO:689: (Length of Sequence = 315 Nucleotides)

GATTTAAGTG TTAGCATTTT TAACTGTAG ACTCTAACAG TAAAAATAAA GTAATCTGAA ACCTGTTTCC ATGGGTAAAA  
CACTCTGCCT GGTATTCTTG TACACAAAT TTAATAATA TGTAATATC ATAAATGAA AATATCACTC CCTTCAATTT  
CTTTGGCCTT CACAAATCA ATGTGACTAT GATCCTTTTC AATAATACTT TCAATGACAT TGTGCTTCTT TAGAAAAATC  
ACTTAAGTTG TAGCATACAA TAGTTAATAT TAGTCTTTT ATTGCTATGG TATATGCTAA TTTTPTTAAA AGGGG

SEQ ID NO:690: (Length of Sequence = 291 Nucleotides)

TTAAATACT CCATATATTT NAGAAGCAAT TGAAAATGCA TCCATGTATG TNATTGAGC GTTACTAGAA ATTTATTTAT  
ACAAATCCAT ATTAATGTGC TAATAAGTGA CAAATATATA TATAGTCATG CACTGAATAA TGATGTTTGG GTCAACGATG  
AACTGCACAT ACAATGGTGG CCCATAAGA TTAAATAGA NCCAAATTT CCTATGGCCT AGTGATGCTG TAGCCATCAT  
AATGTGGTAG TGCAACCCAT TACCTTTTCT ATGTTTAAAT ATACAAATAC T

SEQ ID NO:691: (Length of Sequence = 451 Nucleotides)

TTGAGCATCC GGAATATGGA GAAGTAATTC AGCTACAGGG TGACCAACGC AAGAACATAT GCCAGTNCCT CGTAGAGATT  
GGACTGGCTA AGGACGATCA GCTGAAGGTT CATGGGTTTT AAGTGCTTGT GGCTCACTGA AGCTTAAGTG AGGATTTCTT  
TGCAATGAGT AGAATTTCCC TTCTCTCCCT GTTCACAGGT TTAATAACCT CACAGCTTGT ATAATGTAA CATTGGGGT  
CCGCTTTTAA CTGGGACTAG TGTAACCTCT TCATGCAATA AACTGAAAAG AGCCATGCTG TCTAGTCTTG AAGTCCCTCA  
TTTAAACAGA GGTCAAGCAA TAGGCGCCTG GCAGTGTCAA GCCTGAAACC AAGCAATACC GTCATGTTTC AGCCAAGCCC  
AGAGNCCTAA GGTTTACAAA CAACTATGG NCCGGAACCT CCTCAAGTTC T

SEQ ID NO:692: (Length of Sequence = 363 Nucleotides)

GATTTNTGA TTATTGATAT TAGAAATGTT TAAATTAAG ATATTACAT TTCATGAAGC TGAGTGGTGA GCACACCAGT  
TTTATATTCT CTCTATATAA CTTTGIGTAT ATTTGAAATG TTTTCTCATA AAAAGTATTT AAGCAAGTTT AGGAAAGAAT  
ATTGATAAAT GAAATCTAGA GACCATCAAA AGCCAAATTC ACCATCACAA AGTATAATTG TGTTCAAAT ATAATTGAAA  
TTGTGTGACT GTTCATATT CTCTTTTGTG TTGTGTATAA TGAAAGCATC TTAAACAGTT GCCTTTCAAA GCTGTATCT  
TTGATANTAA CATACATTAA CTAACATTG TGGACTTCTG TTA

SEQ ID NO:693: (Length of Sequence = 269 Nucleotides)

TTAAGGGTCC CAAGACTGCT CTAACAACAA CACCCATTTT CATAAATATG GNTCAATAAA CACTTATTCA TTCCTTATAA  
TTAGACTCTA TTGTTAGAAAT TGTTTtaggt TTATAGAAAA ATTGAGCAGA TAGTACAGAA GATTGCCATA TACCCCTCAC  
CCACAGAATT TCACAATTA CCTGCGATT AAAGTCTAAT GTTAATATGA TATATTTAGT ACAAGTAGTG GGATTATATT  
GATACATTAT TATTAATTAA AATCCNCAA

SEQ ID NO:694: (Length of Sequence = 330 Nucleotides)

GGCATAGTCA CTCCAGACA TGGTGCCTC TCCATGTGGA GTAGGTCAAA GTCTCCGTCC TCCCTGGCCA GGTGGAAGCT  
CCAGAGGGAC ATGTTTCAGC TTAGTACAAG GTGGCTGACA CTACTCTCT GTAGGAAGAG GCTGGCTGGA GGTGAGGGCG  
CCCCACTCAG CCTGTACCCA TCAAGAAGTA TTCAGAAAGG ATGTCTCTGG CATCCACAAG ACTACTGGGC GAACCACACT  
GCAAAAATGA AAAGTAGCGT ACACAATTTA AATGTGTCTT AAACAAGCAA ATAATCCAGC CATTGGTGAC TCTGGGAATC  
TAGAGTGCAA

SEQ ID NO:695: (Length of Sequence = 344 Nucleotides)

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CACTGTGACG GATGAGTGGG TATTTCTTTG TACCTGAGC TCCTTCATCC TACCTTGGTG GTCAAATGTG AGAGCAAGTG  
 CTTTGGGGCT CAGAGGGCAT CACTCCAAGC ATTCTGCATG GAGTCTGTG TGGTGAATGT NCTTGTGGC ATCTTGATCA  
 AGGACTTTGT CATCATIAGC CATCAAATGC TTGTGGTCC TTCTCAACC TGTAATGTG ATACTTAAAA AACTGGAAAC  
 ATCCTGACAG AACAGTCGA GAAAGTGGT GTGTGAGCTC TGGTTATGCG ATTACAGTTA AAGTTGGCAG ATAGGTTCTG  
 TATTCAGTGC CCCATCAAAA ACAG

SEQ ID NO:696: (Length of Sequence = 324 Nucleotides)

CTTGAACGTG GCAGATAAGC ATTTTGATAT GCTGCTGGAT TCAGTTTGCC AGTATTTTAT TGAGCATTTT ACATCCATGT  
 TCATCAGGGA TATTGGCCTG AAATTTTGT GTTGTGTG TATCTCTGCT AGGTTTGGT ATCAGGATGA TGCTGGCCTC  
 ATATAATGAC TTAGGGAGGA GTCCCTCTTT TNCCTATTGT TGAATAGTT TCAGAAGGAA TGTTACCAGC TCTTCTTTGT  
 ACCTCTGGTA GAATTTGGCT GTGAATCCAA TAGACACAAT AAAAAAATGA TAAATGGGAT ATCACCCTG ACCTCAGAGG  
 AAAT

SEQ ID NO:697: (Length of Sequence = 341 Nucleotides)

AATTAATCAA TCAGCCATTT TGGTGGCCGA AATTTATAAG GCAAGTAATA CTTTGTAGTT CTTTGATAGA CACCATGATC  
 AGAAACATAG TCTCTTTCTT AAAGGGAAAA TAGGAAGTCT TCTGAGTCAT AACAGATGCA TGCATAAATT TCTCTGAGTC  
 TTCATAAGAA ACACAAGCAA GATTTCACAG AGGCAGTGGG ATTTGAAGTG AGTCTTGAGA AATAAGCAAT ATCTGAACAT  
 GTAGAATGCA AAATAAAGGA TAAGCAAGTG CTAATGCCCA GAGGGGTAAT ACATATTAAA TANCCANTAA CCAATTGCTA  
 CTTGTGTTTC TTACTACTAGA A

SEQ ID NO:698: (Length of Sequence = 317 Nucleotides)

GCAAAACCAGG AGAAGCAGAA GAGCAGGGTA AACCTGGGT ATAATTTGTC TAGACCCCA TGCTCTCTTT AGTCTGAGTT  
 CTGACATAAT TAACTGTCTA TGAGATGTAC TGGGCCTTTC CTCATTGCTT TTTGATGCCA CCTCACTAAT GTAAACAAAA  
 CATTCATTTT TTCATCTAT TTTTCTTAC AGCTGCTTAG CACAGTCTT ATGAAAAAAT GAAGCCTTGA AAATGGTATA  
 TCCTCTGAC AAAGCTAAGC CTGACAAGTT GGCTGCATTA CCTAGGAATT AGAGAAGAGC AAGGGCAGAT GGTGGGG

SEQ ID NO:699: (Length of Sequence = 385 Nucleotides)

ACCAGGAGAT GGAGTGCTC TAGACTGTGA TGCTGGGAAA GGATTGTGGG CTAGAAAAAG GGCTCCCTAG GGCCGGCATA  
 TGGGCCACTG GGTGGAAGAG GGGCTCTGAG ACCCTCACCC TGGAGCAGGT CATCACCCAC ACCGAAGAAT GAAGCGTGAA  
 TTCGGTCACG CTTAAATGT TGAATGTG GCAAAGCCC AAGTTAATGA AATAGCATGG AAAATGGATG TGATGAGATT  
 TTTGAATGT AATTAGATTA ACATTGTCAC TAGTTATCAG TCTGATATAT CTTATAAATC AAACGTTGGG TTGATTATC  
 TTTTATCACT TCTAGGNCCT TACTCCTAAC AGTAACTCAC AAACCCAGCC CCAATCAGA GGCTT

SEQ ID NO:700: (Length of Sequence = 315 Nucleotides)

ATCAGTTGGA TTTGCAGAGG ATTGGAAGGC AGCACCAGGC AGGCTCAGAC TCACTGCTGA CAGGAATGGC TTTCTTTAGG  
 ATGAAAGAGT TGTTTTTTGA GGACAGCAAT GATGATGCCA AGTACTGTGG GCGGCTCTAT GGCTTAGGCA CAGGAGTGGC  
 CCANAAGCAG AATGAGGATG TGGACTCTNC CCANGAGAAG ATGAGCATCC TGGCGNITAT CANCAACATG CAGCAGTGAT  
 GGCGCCAGGC TCTTCAGGNT GGGCCTGATC CCNCACTGGT GCTTACTNIG CTGACTGTGT ACTTATCTTC CCCAA

SEQ ID NO:701: (Length of Sequence = 387 Nucleotides)

GGCAGGAGAA TCGCTTGGGC CCGGAGGCA GAGGTGCGAG TGAGCCAAGA TCGTGCCACT GCACTCCATC CTGGGCAACA  
 GAGCGAGAGT CTGTCTCAAA AATAAAAAAT AAAAAAATAA GGTAGGTCTT TTCATCATTG TGTTTTCTAG CATGTAGCAC

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TGTAACCTCC ACCTACTAGT AACIGAAAAC ACGCATGTGG GAACATTGCA CAGATGGATA GATGCAGAGA TGAAAGAAGG  
AAAGCTAAAA TATTNCCAC GTGAAAACCA TGCATCCTGT TCAGAACTA ATTCTGCCTT CACGCCTTCC AGGAGCATGG  
GAGGGGTGTC GTCTGNNCC TTTTGTGGAT GAGGGGGACC ACATGGTATT TCTACTGAAA GAGTTTTT

SEQ ID NO:702: (Length of Sequence = 397 Nucleotides)

CATCAAAAA AAAAGGAGCT AACTAGATGC TGTCATAAG AGACTCACTT TAGATCTAGA GACACAGGTT CAATGTAAAG  
GGATGAAAA ACATATTCCC TGTGGAATC CCAATGAGGG TGCTATGGTT TTGCATGIGG TTTGTCCCA CCAAACTCA  
TGTTTAAATT TAATGCCAA TGTAAATGGT CTGGGAGCCT GGGCCTTAAG AGATAATTAA GATGGATTAA TGCTTTTCCC  
ATGAGACTGG GTTAGTCGAG ACTCTTGCAA AAGCATGTTG TCGTTAAGTG GGTCACTCTC CTTTGTCTGT TCTCTTTTAT  
ATACACTTCT TTCCCTTCT ACTTTTCAC CCTATTATGG AAGCACCGTG AAGCCCTCAC CAGATGCCAC CACCATG

SEQ ID NO:703: (Length of Sequence = 374 Nucleotides)

ATACAGGGTT AGACCAAAGA GGAATTCAA TGAGGCTGA TGGATTATG GACCAGAACA ACAGAGGGGT CITGAAGGAA  
GGAAGATATA GAAAGGCAA GGTGTGGT AGAGAGGAAA TCCAGAGTT TTAGCTCTGG GAGGTGTAAT AATTTCAAAA  
GAATAAGTCC AGGCCTGGCC ATGACATGGG AAGCTGAATC TCTGCAATGT TTTTCAAAT AGCATAATGG ATATCTTTGA  
CTCCTACCT GAAGCCAGAA AATATTAAAC TTGCATGTAT AATCATACAA ATGTATGCAT ACCTATTAT ACATACATTT  
ACATATTTTA TACTTATGCT TTCATATATT CTACGTGAGG TACAATATAC TCCA

SEQ ID NO:704: (Length of Sequence = 422 Nucleotides)

GGCAATGACA TAGAGATGAT AAGAAACAAC ATGGTTTGGT AGAGGGAACA TTGATTTAG ACTCTGCCA TTTTtagctg  
TATGACTTAC ATAAGTCATT TTGTGTCAA GCTCATTTT CTCCCATATG AAAAGTGAAG GGGTTGGATT AAATGACTAA  
AATCCCTTC CAGCCTATG AGCCCAATGT ATTATGATCT CTGCTTTGTT TCCTTCTTAA GAGGCTTCCT ACTATAAAT  
GTGACCTATT TACATTTTAA GTTGAAGTAG CCCACAATAA TGAATAATCA NTTFAGATTT TCCTCATCTC CTTTGGGAGA  
AATTAAATTC AAGCCTCTAT TCATTTGATG TTTTACAACA AGCTTCAAAG TTGGGCCATG GTTCATTAC AGTTTGTATA  
TTTTGAGGAC ACCAATAAAA AG

SEQ ID NO:705: (Length of Sequence = 229 Nucleotides)

GCTGCGNTC ATAACAGCTG GACTCACGCC GNTGACAGAG TCTTGATCAG TCCTCTGGGA ACTAGACGTC AGGCTCACAC  
CACTGTCTGC GCTGATCTGG GNCITTTTCT CCTCTGCTC ACCAAGGTCA AAGACAGGTT TGATTACTTC AGGCCTCTGT  
TTTTCCAAG NTTTTTGCTT TNNCACTTCC TGGTGCTGT TCCACAATTC AATAGATGCT ATAAAAATT

SEQ ID NO:706: (Length of Sequence = 255 Nucleotides)

GAGGACTGTA TACCTCAGTC CTCTCTTAA ACTCCTCAGC CTCCAACAG GGGCCTCCTC ACCTGGGTC TGAGTGTGTA  
CCCTTTTtag AGAGTGAGAT GCCACCCGGG CAGCACTCGT TAAAGCTGGC CAGCACGAGT GACTAAGGGG AGAGAGCATG  
ACATAGACCT GGGTGGCAAC GGGGACCTCT GGAAGCAGGT GGGAGTAACA NAGGAGAGGG CAGTNGAGGG TAGAGGAAAA  
GGACCTCCAG AGGTT

SEQ ID NO:707: (Length of Sequence = 324 Nucleotides)

COGNAGTGT GCCACTGCAC TCCACCTTGG TGACAGAGTG AGACTCCGTC TCCAAAAACA AAAAAACAA AGTTGAACTA  
TAAACTGAAT TCCTCCAAG GTTAGTTCAG CCTATGCCCT GGAATGAACA AGGACAGCTT GGAGGTTAGA AGCAAGATGG  
NGTCAGGCA GATCTCTTTC ACTGTTAACA TTTCTCAGT TATAATTTTT GCAAATGTGG TTTCAGTCCC TGCATCCATA

224

ATACCTAGAA ATTTTGATAA ATACTTGTTA AACAAACAAA AATAAAACAT CCACAGCAAG GANTCGACTA TAAGGCGTTG  
GTGG

SEQ ID NO:708: (Length of Sequence = 325 Nucleotides)

GGGCTCATAC ACAGTTTTAT TTCTGTGA TTTTACAGAC ACTCCATCCT GCAAGCCCAT TCCCTTGAA AACCCAGAAA  
GAGTGGGCAC AGTGCTCCCT AGAGGAATAG AGGGGACAAG ATGGCTGCCA GGGAGAGGGC AGTTGAGGCA CTTAGGGATT  
TACTCCGGCC CTGATGGAAG ATCTGGTGCC CAGGGTAGGG GGAGAGGGCC TGGGCTGGGC TGGAGCCTCC TAGGTATTTT  
CCAGAAGCCC CTTCAGGAAC TGTACCTGG ACTCCAGCAC CACCCTCGT CATGTTGTCA CTTCTGTGG TGGCGGGAGC  
GCAGG

SEQ ID NO:709: (Length of Sequence = 264 Nucleotides)

GGGCCCCGTT GCATGAGGCA CTTGTCAAA ATGAGCAGAT ACGTATGAGC ACTGAACICT TGAGTGAATC AACCAGAACT  
AAGACCCAGA TCCACGCACT CAGGAACITG CTCTGAATTT CAGTTTGACA ACAGAGAAGT AGAATATTTT TAATTAGCTA  
ATATATATAC ACATTTTTTA ATCATCCAAA ATTACAGGCA AATCACTTAA GGTCCCCAGC ACTTTACGNT GNAAGGTCAG  
AGAGANCCCC ACAAAAAAGG TGTT

SEQ ID NO:710: (Length of Sequence = 366 Nucleotides)

ATTTTTATTA TATACATATC AGTACTCACA ATACGTGCT TATTTAAGAT GGCTGTTTAT AAGTATAAAG CAGTTTGAGC  
AACACTGATT GTGCATTATT GTACTTCAGA TGAAAAATCC TTACATGCCG AATCAATGTC TTTTAAATTT TCAGATAAAG  
AATTTCATT TGAGGNGACA TACAATTGTA AGTGCTCATT TTTTGTCAT TTTAAGACAC CATTATGTGT AAGANGGATT  
AATTTTNCCT TAAATTACA AACACCTCC ATGCTCTGAC ATTACATGG AAAGGGCAGC ATAACCATTT AATCATCCAA  
ATGCATATCA GAGCAAACTC CTAGGGCCTT TAGGTGTGAG GGTGGA

SEQ ID NO:711: (Length of Sequence = 216 Nucleotides)

GAAAAGCAGA AAAAAGTGGG GAAGATTTTC TATCTGAAC TTGTGAGCTG GAGAATTACC ATTAGTAGCC CACTAATAGG  
TTATGGCCGA TGAGTCCCTT CATAACACAC TGAGAGCCAC TTTTGACACT CCCAGAAAAG GCAGGTAAAC AAAACCCCTT  
GATGGAAGCT TAGACCTCA TTGCCAGTG TACCCAAGCC TCTTTGAACC TTGCCT

SEQ ID NO:712: (Length of Sequence = 276 Nucleotides)

ATTTTTTCC CATAGCACGT ATCACTCTCT CATGTGTAC CTGCTACACT AGAATTATGA CCCCTAAGAG GGAAGAGACT  
ATGTCAGTAT CATTGATTCT NATTAACACC ATTATTTAGA ACCATGCTTG GCTTAAAGTA GTAGCTGCTC AGTAAATATT  
TATCTATGIG TGAATTTTA AGINCTTCCT TTATATTGAN TTAATATTAG TCTCTGTGT GCAGCAGTCT GGGTTTGTCT  
TATGTTGAAA TACTTATGTA GACTTCTACA TACATT

SEQ ID NO:713: (Length of Sequence = 354 Nucleotides)

AAACTTTACA ACCTGCACAT TTGTTATGCA TACTAAATGG TGIGTTAAAA TTAGGGTTTC TTGCTCTC TACACTACAC  
TAATCTGCCT AAAGGTGGTT GTTTCATAIT TATAATGCTA ATTATCATAC CTACCTACTT TAAATTTTAG GTAGAAAATT  
ATCTGATTIA AATACAAACA TATTTTCTC ACATTGAGTA ATATGCATAA TGTAGTTCCA AATGTATTTT ATTACTATAG  
TCACAATATC CAACTAAAAA TTACGCTATC TAGAATTGTA CCANCCAAAA TCTCGTATTG GCAGATCTTG ACAGGCTGGA  
CCTGCAAGNA TGTGGCTTGG AATTTTAAAC CCAT

SEQ ID NO:714: (Length of Sequence = 349 Nucleotides)

225

CAGTAATTCT CTTACATCCT TCCCAAAAAT CAGTGTCTAG GGACTAGTTG ATCTGGATGA GTTATACATG ATATTTGACT  
 TTNCATAAGT AGTGGGAGGT TTCACTAAGT AAAGATCTGA GTTTCITGGT ATCTGACGTT TGTATACAGA TGGTGTCCAT  
 TTGCTCAACC AGACAGGAGT TAACTTGTAT TAGAATTGTT TTINCTAAAG TNATGTTACC TGAGAAATTA AGGACTGCAC  
 CTGGTTTAAT GTTGCTTCAC TTATCCCACC CTACAGAGAC CAGCAAGGTT CTGCCAGGCC TCGAGCATCC AAGCATGATT  
 TTCTGTGAC AAAATCTAAA AATCCAACC

SEQ ID NO:715: (Length of Sequence = 302 Nucleotides)

ATATTTGAAA AGATCTTCAC CAAAGATATA TGGATAGTAA GTAAATATAT GAAAGGTTTT CACTGTTAAT GATTAAAGGA  
 AATGCAATCT TGTACATGAA TGTTTATAAC AGCATCATTC ATAAGAGCCA AAAGGTAGAA ACAATCCAAA TGTTTCATCA  
 CTGATGAATG ANIACACAAA ACATAGTATT ATCTATATAA TGAATATTA CTGGCCATA AAAAGAAATG AACTGGGCCA  
 GGCGCAATGA CTTACGCTG TAATCCCAGC ACTTTGGGAG GCTNAGGTGG GCGGACTGCT TT

SEQ ID NO:716: (Length of Sequence = 314 Nucleotides)

GTATTTTITAG TAGAGACGGG GTTTCACCGT GTTAGCCAGG ATGGTCTTGA TCTCCCTACC TCGTATCCG CCCACCTGG  
 CCTCCCAAAG TGCTGGGATT ACAGGCGTGA GCACCTGCGC CCCACCCCAT TTTGGTGTGA TCTCAGCTCA CTGCAACCTA  
 CCCCCTCCAA GTTCAAGTGA TTCTCCTACC TCAGCCTNIT GAGTAGCTGG GATTACAGGG GTCTGCCACC ACGNCTGGCT  
 GATTTTCCIA TTTTINAGTTG AACTGCAIT TCACCAGNT GCCCAGGCTG GTCTCGATCT CCGTACAAG AGGG

SEQ ID NO:717: (Length of Sequence = 279 Nucleotides)

ATAAAATGC TACAGATTTT TGTATGTTGA TTTTITATCA TGCAATTTCA CTGAATTTGT TTTTCAGTTA TAACAGTTTT  
 CTTATGGAGT CTTTGGTTTT TNCCAAATAC AAGATCATAT CATCTGCAAT CAAGGATAAT TTGACTTCCT CCTTTCCAAT  
 TTAGATGCC ATTATTTTTT CTCITGTCTG ATTGCTCTAG CTAGGATTTT CAGTACTATG TTGAATAACA ATGGTGAAAG  
 TGGGTATCCT TGTATATTC CAGGGTCTTG GAGGAAAGG

SEQ ID NO:718: (Length of Sequence = 161 Nucleotides)

AAGAAAAAA CATAAATAAT ATTAGAAATG GAAAAGTTAT AAATCAACTA CAGCAAGGNT TTAAACTAT TATGAAACAA  
 ACCAAGTAGA AAGTAGATCT GCCAAACAA AAAGGAAAGA NACTGTTTCT TTCATAAATA ANTGACAATG GGGGAAAAAG  
 A

SEQ ID NO:719: (Length of Sequence = 220 Nucleotides)

GACAGAATTT TTTTTTTTTT TTTTTTTTGA GACAGAATCT CGCTCTGTCA CCCAGGCTAG AGTGCAATGG CGCAATCTCG  
 GCTCACTTCA ACCTCTGCTG TCACAAATAA ACATCAGTAA GAGCCAGCAG TTGCTCTAGG ATCTCAGTCA GCAAGCTTGG  
 GGGCTGTGAG GAAACCAACA GTCACTGTT TCTCCCTCTC CCAGCCAGG GCTGACCCCT

SEQ ID NO:720: (Length of Sequence = 347 Nucleotides)

AGAAATGAAA GCTACATTAA CGAAAAGGA ACTTAGGAAT GAGGTCAITA AATATAACTA ACTACATTTT AAATACGGAT  
 ATCATATATT TCTGATTAG TATCAGGTAA ATATCTAGAC TCCTATCTTG AATTCGGTTC TCAGATAAAA AGGTCAGAGA  
 CAATTACAAG GAAGATGCTT CATATTATCA GTTCAGTATA TACCTAATTA TGTGCACTGG AGAGTAATTT ATTCTTCATT  
 ATCATTTGTA AACATTGTTT TTTCACATTT TTGTAGTTGT CCATAATGTA AGCTTGTGGG TTTGATTATT GTTTTCCACA  
 CTGGATCCAG CTGGTTTAAA CCTATTT

SEQ ID NO:721: (Length of Sequence = 313 Nucleotides)

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AAAAGATTG AACAGATAAT TCATCCAAAA AAAATATGGG TGGGAAAAAA AGCACATGAA AAGATGCTCA ATATCATTAG  
ACATTAAGAA AATATAAATT AAAACCACAA TGCAATATCA CCTGTTATCT ATTAGAATGT CTAATATTAG CAAGACTGGC  
CATATAGAGT GTTGGTGAGG ATGTGAACAA CTGAACTCA TACACAGTGC AGGTGGAAAT GTAAATGATA CAATTTTTTT  
GGAAAAGAGT TGGCTGTTTC TTCAAAAGTT AAACATTACA TCTGCCATAT GNTCCAGACA TTCCACTCCT AAG

SEQ ID NO:722: (Length of Sequence = 266 Nucleotides)

ATCGTCCAC TGCACGACG CCTGGGCGAC AGAGGAAGAC GCCATCTCAA AAACAGAAAA AAAAAAAAAA AAAAAAAAAA  
AGTGCAGCTC TCTAATTGGG CTCITTTACT TACTATTAT ATAATAAAG CCACGTTCTT AGGCTGTATA ATGGGGTTAA  
TCATAGTAAG TACCTTGTA AGTTACTGTG ATAACCAAT AAGTGANCAT AAGTAAAGCA TTTTACATGT GTGCAGCTTA  
ATAAGTTGA GTGTGACTA TTATTT

SEQ ID NO:723: (Length of Sequence = 370 Nucleotides)

ATTATTCATG AAATAATCCA TGTAACATCA CTTAGCACTG AGAGTTAACA AAGGCAAATG TTACCTGAAT AGGAGGAAAC  
AGAGGAAGAA CAACGAGGTC TCTTTTACT ATGCTAAGCT TTGTCTGAAT AGGAGAGAAA TGTGTGGCCT GTTGGTGAAT  
TTATGTCTTT GTGGTAGTAA TGGATTTYCC TAAAGCTGTT TCCCTCTGAT CATTATAAT CCCGTACAG CAAAGGACTA  
TTGTCTTTG GTATGAGTAA ATAACCTGT TGAAGCACC GCCTATCTTC AGACCACAGC GCATCTTCT TACTGGAAAA  
TATAATGCAG GTGCCAACAC CCAAAGGGCA TGACCAGGG TTCCCTTCC

SEQ ID NO:724: (Length of Sequence = 478 Nucleotides)

GGACACAAC GAAGTGTGA AGAAATGAAA GGGCGAAGGT GTGTTTGTAG AAGGCTCTGG AAGAAAAGCC CAACAACCCA  
GAATCTCCT CTGACTGGC AATTGCGATG TACCATCTGG ATAATCACC AGAGAAACAG TTCTCTACTG ATGTTTGTAA  
GCAGGCCATT GAGCTGAGTC CTGATAACCA ATACGTCAAG GTTCTCTTGG GCCTGAACT GCAGAAGATG AATAAGAAG  
CTGAAGGAGA GCAGTTTGT GAAGAAGCT TGGAAAAGTC TCCTTGCCAA ACAGATGTCC TCCGAGTGC AGCCAAATTT  
TACAGAAGAA AAGGTGACCT AGACAAAGCT ATTGAACGT TTCAACGGGG TGTGGAAT CCACACCAA CCAATGGCTA  
CCTCTATCAC CAGATTGGG TGCTGCTACA AGGCAAAAGT AAGGCCAAAT GCAGANTACA GGGGATCTG AAGCTAGT

SEQ ID NO:725: (Length of Sequence = 356 Nucleotides)

GACAGAGGAG AATAAATGA ATAACCTAGT TTTGTGAAG ACTCACAGTA TCACTTGGTT TCTGGACAG GTTCGAGACC  
TGGCTGTGGC TTGCTGTGGC CTTGAGAGCC ATCCACAGC AGCAATGCTG TTGGACCCCT TGGCTGGGAC CTTGAGACC  
CCCTGCAACA GCACTGTGTA CCTAACCTGC TGGCATGATG CCCCTTNTT GACAGGGCTG CATACAAGGC CAGCGACAAG  
TGGCAGGCAG TGACGCCAGC CTGGATTGTC TGAGGGCACA CGCCATGCTT CCGCAGTGC CAGTGCTCTT CTNGGTCCAC  
TTTGACAGCA GGATAGATGT GGTCTAGAT CCAAGA

SEQ ID NO:726: (Length of Sequence = 387 Nucleotides)

GTGGTAGAGT AAATCCTATT ATATCGAGAT ATTGGTCAGG CAAGAATTTT NCTTTTAAAA TAATTTATTG TAAATGAACC  
ATAAAATTTT NACCTTTGTG CCATCTTCTA GGCTATAAAA TAGTCTTATA AAGAATCAGA TTGTTAAGAG TATATGAAAT  
GTGGATATGG ATGTGGAAGA TCCATAACGA GGATGATGAA AGCATTAA GAAGCTTCTT GATGGGTACA AAAAAAGAA  
TGAAGAAGAT CTAGTATTG AGAGCACAAC AGGGTACTA TAGTCAACAA TAATTTATTG TGCATTTTCA CATACTAAA  
AAGTATAATT GGGATTGTAA CAGAAAGGAT AACTGCTTTG AGGTGATGG ATACCCCATT TTACCC

SEQ ID NO:727: (Length of Sequence = 348 Nucleotides)

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CCTTTAAGC AGCGGATCCC CTGGTCCCCA CCCCCAACIT TATATTCATT AGGCCTGAGG TGGGGCCTGG GAATCTGGAT  
 TTATAZATTG CTCCTCTATG ATTCCAATGC CAGTGGGTTT TAGACCACAT TTTGAGAAAC AGTGCCTGTA ACTGTTTTC  
 ATTTGCAGTG AAGGAAAATG TAGGGTTTGT GTCGTGAAAC TATGCAGAGA AATTGAATAG TATTINAGTC TAATCTTGCT  
 TTTAAATAAC ACGGAAATTT TGAAAGTCGG CTTTAGGGAG TTCCAGAACC TGTCCATGAA CAGCAACAAG AAAGATCCCN  
 GTGTGAAAT GAACACTGGT TGGTAAAA

SEQ ID NO:728: (Length of Sequence = 305 Nucleotides)

TGTTTATTTA TAATCTTATA CAGTCTACAT AAATTTGAAC TTGTATTTAT TTGGGTTTCAG TTATAACATA GCATAATAAA  
 AATCAZAGCA CTGGTCTCT GAAATAAAGC AGGCAATCAC CATTCAATAA ACACACTTGA TTTATTTTGT ATAAAGGGT  
 TAAGTTTACA ACTAACTTIT TATAAAANGT TTAGCATGAA TAAGTACATC ATTACACTTT TGAATGCAGA AATAGACATC  
 TCTGCCACTA TACAAGAAAA CTCTAATTAA AGAGTTCACA AGGTTTCACT CAAATAGATA TATTT

SEQ ID NO:729: (Length of Sequence = 383 Nucleotides)

CAGACZATTT ATTTTCTAT TTTCCATGAA GAAGGAGAGG GACAATTTTA GATTCACCAG TGTGCAGGAC AAATCTTAC  
 TTAACCTATA GAGGAGCAA CTTTCTTCAA ACACATTACC AATACAATTG TAATACTAAG AATCAATACC ATAGTTCTCG  
 ATGTAGCATG ACTACAAATT GTCACAGTAG ATTTTGGATG ACTTTACCAT AGCCACACTT AATGAATTAT TATINATATT  
 NCTATTTGTA CTTAATAAAA ACTATATTTT AAACTTTAAA ATTGTCAITT AAATTACTAA AGAAAATGAG TAGTTCCCAT  
 AATGAATCCA TAATGTTANG AATTTGCTTT AGCAAATGAG GACTATATTC ACCTANGCTT TTG

SEQ ID NO:730: (Length of Sequence = 311 Nucleotides)

CTCTTTATTT CCTTAACCTG CTTAACAAAA GAAAGAGTCT CCAAAGTTTA AAAAACTTTT GAAAAATATA CAGCTTGATA  
 TTATTACAT AAAATATGAN TCCAGGTTCC AATATCAAAC AAACATTGCT ATGTCAGAAA CACAGTGGAA GGCAGGAACG  
 TAACCTACTG CCTTTTAGAT GCAAAGACTA ATAGACACGT TCTCCNATCT CGACTATCTT NGTTACCTGT TATCTCTANA  
 ACATAZATTA TTANGGCACC TENGAGGTTG GATGACTACC GAAAATGGNC TTCATACCTT CTGTATGATT A

SEQ ID NO:731: (Length of Sequence = 349 Nucleotides)

AGGGAZATGC ACAGAATTCT ACTAAAATAA CAGCAAAATA AGAGAGCATG AATTACATAT CAAATTATTT AAAGCAAATA  
 ATTTTACAAA TTCTGGGAAC AGACAGAAAG CAGATGAGTC TACCAAGAAG GATAATAAAC AATGACACCA GAGAAAAACC  
 ACAACCTGAA AACTTAAGAA AACTGCCATA GAGGTGTGAG CCAGAGCTCC CAGGAGCCCT ACAGTGTCTC AAGCTCAGAA  
 CTGGCAGTA TCAAAGTCAA GAATGCTATG GGGTAGCTAG GCCTCTTGAC TTTCTCTTCT CTCTCCATTC ATAGACAAGA  
 AAGCAZATCT ACCTTTAGGT GGCTAGAA

SEQ ID NO:732: (Length of Sequence = 370 Nucleotides)

AAATTGTGTC CTCTAGCCTA GAAGCAATCA AACTCCAAC TGGTCTGCTG ACTGANCTAC GCATGGATAC GCCATTCTTC  
 TGAGGZCCCT TAGACCAACC CCAGGAGGAG CCTGACTTTC TGTTCCTCAT TTATGCCCC TTTTCAAGCA GGAAGTAGCC  
 AGAAZAGTC ATTGCCCAA ACCACCTAAC AGCAGTTGGG GTGACGTCTC CACAGGGGGG AAATGTTATA GGAGTTATTA  
 AGAAZTATC TTAGGCAGAT AGAGAGCAAA AGGGGTCTTT GGGAAATTTT TGTTCTTTT AAAGTAGCTG CAGAAATGTT  
 TCTTGCTAG CAGGAAAAGC CCCAGCTCTT TAAAGCTGGG GCCAGCAATC

SEQ ID NO:733: (Length of Sequence = 357 Nucleotides)

TTTTTGGTG TGTAAGACA AGGTCTTGCT ATGTTACTAA GGCTAGAGAT CCTTTTAAAA TGCTTTCTG CTAGGTGTGT  
 GGGCCZTAC CTCTCTTTG TTTCTTCTC CTCTCCAGC TTCTCTGGAT TCCATCTGTT TCTTATACTG AGAAGTTTGC

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TACCTAGCTA GCCCTCAACC TCTTTGTTTT ATGAATGGAA AGGCTGGGAC CCAGACAGGG CAAGTGACTC ACCCAGTGTG  
ACAGAGCTGT TAAATGGCAG AGCATGATTG AATCGGGCCA TGACTACTTT CCTACATGAC ATATTGAAAC CAGTTTGAGG  
CCTCGGTTTC CTCTCTNGCA AACAGAGAT ACTAATG

SEQ ID NO:734: (Length of Sequence = 374 Nucleotides)

TGGTGAAAGA AGAGAAGGAA ACCTTGGTCT GCATGGCACT TGGTACTTTT GTATTGCCTC CATGCCCTCC ACTGCAGCTC  
CTGCCCTGCT CTGTGTGCAT CCTCATGAG ACTCAAGACA GATAACCTCT CCTTGCCTTT TCATGTCCCA GCCCTGGNTC  
TTGGACTCAA CCATCCATTG CATCCCCATG GAGGATTTCT CCAGTCTCTA GGACTCAGGA GCAACCCAAG GATGTCCAG  
GGTCACAGGA AGACTTGTG AGGGGACCCA CAGGGGTGCC CACAAATTAT CAGTCCATGG AGAAAAGTAG AGAGGGAGGC  
TCAAGGACCT CAGCACGTAA GGGACATTTT GAATTCTACA AGTCACGGTG GGAT

SEQ ID NO:735: (Length of Sequence = 348 Nucleotides)

CCCAGCGCCT GGAGAGCCAG CCTGTCAGGG TGGGCTGGGC GAGCCAAACT GCGTTCCTGG TGCAGGGCTT CGGGTCTCCC  
TAACAGACCT TATACGCTGA CCGGCGGCGG CCATGGCAGT GTCTCTTTGC TCAGACATCC AGGGACGACC ACATTGTGTC  
AACAGCGGTC GCTCCACCAA TCCTGGGAGA AGCGAATCGT TTTCTCCGCG TGCCCTGTCA GCCGCTCATG GTGCCAGAG  
AGGAATTTTA GTGGCAGCAT TCCGGCTGTC ACGCCACCGA AATTGCCAGS NCACTCCAAG TCAGAAGGAC CACCAGGAAA  
AGTCAGGAAG AGAACCACCC ATCAAGGT

SEQ ID NO:736: (Length of Sequence = Nucleotides)

ACACTCTGA CCTCAGGCAA TCCTCCACC TCAGCCTCCC AAGTGTCTGG GATTACAGGC ATGAGCCACT GCGCCAGCC  
TACACACACT CTTAATAGAA GAAATGAATA ATCAAAAAT ATTATGTTG GAAAAATGT TTGAATCTTA TTTTAAAAT  
AATTAAAGNT TTCAATAGGC ATGTTGAACC TTTTTCGGC TACTGTTTTT AGCAATTGCA GTTGAATGAG TACAAAATGC  
ACCACAGAAT AGAGACTGCT ATCTACCCAA ATATTGCTGG TTGTTGAATC CATGTTAGGG AATTINCATG TATTGTTACA  
ACCNGCTATA AATACATCCC AAAATATGTG TAGAGCTAAA ATAGATG

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SEQ ID NO:737: (Length of Sequence = 243 Nucleotides)

TTAATCATTC AAATTCATT TTATACAACG AGTGCATACA CCACTGGGGG AGTNTCTGAC TGATGCGTGG GAGGGCGGGC  
GGGGATGTCT NCAGCTATGA GTAGGGAGGA GGCGGGGAAG CCTTGGGTGC TTCTCTCTCT CGACTGACCG CTGTGTGTTT  
GTCCCAGAG GAAGAGCGGN NGGCAGTCAG CCCCCGGGGG GATGGCAGAN TGGAGAGACG GACCTGCAGA AGTGGTGGCC  
AAG

SEQ ID NO:738: (Length of Sequence = 358 Nucleotides)

CGAGTCAGAG CTGGACAGCG GCGATGCCAT CTTTACATGG CCAGACCGAG AGAAGGGCAA ACTCCTGCAT GGTGAGAATG  
GCTCTGTACC CAACGGGCAG ACCCTCTNA AGGCCAGGAG CCGCGGGGAG GAGATCCTGT AGCCACCTGG TCTGTCTCCT  
CAGGGCAGGG CCCAGCACAC TNCOCGGCCA GTCTCTTAC TCCCGAGTN TGCGGGCAGC TNCGTGCCCA GCATCTGCTG  
GTCATTTGCG CCTGACAGTC CCAACCAGAA CCGCTNGGGA CTGGAATCCA GAGANGTCTT CCAGGNAACC CCTCAACGAA  
GCTGTGAAAT GAAGAGGTTT CCTCTTTAAA ACTGGTTT

SEQ ID NO:739: (Length of Sequence = 400 Nucleotides)

CATTTCTGGC CAGGCACGGT GGCTCATGCC TGTAAATCCA GCATTTGGG AGGCCGAGGC AGGCGGATCA CGAGGTCAGG  
AGATGGTCTA GACCATCTTG GCTAACACAG TGAACCCCTG TCTCTACTAA AAATACAAAA AATTAGCTGG GCGTGGTGGC

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GCCTTAGTAT TTCCTTAAAT AACAGGTAC AATAGAAAGA TACTGCCTGG AAGTTATCCT TTTCATTTTG GTTCATTTTC  
AGTTTTTGT TATGATTTAC ATAGCTGTTT AATTCAITTTG CTTATAGTAC AATCCTGCCA TAAAGTATTA AAGCACAAGA  
TACCTGTAT TCCCTTCAAC ATCTGCATTT TTCAAGNTT TTATACTCTA TATCCACAGT ATGTCAGCAG TTCTTGACTG

SEQ ID NO:740: (Length of Sequence = 374 Nucleotides)

ATCGTCAGAT TCACCAAGGT TGAAATGAAA TAAAAAATGG TAAGGCGAGC CAGACAGAAA GGTCAGGTTA CCCACAAAGG  
GAAGCCCATC AGACTAACAG CAGCTCTCTC GGCAGAAACC CTACAAGCCA GAAGAGAGTG GGAGCCAATA TTCAACATTC  
TTAAGAAAAA GANITTTTCAA CCCAGANITTT CATATTCAGC CAACTAAGC TTCATAAGTG AAGGAGANAT AAAATCCTTT  
ACAGNCAAGC AAATGCTGAG GGATTCTGTC ACTNCCAGAC CTGCCTTACA AGAGGTCCTG AAAGGANGCA CTAAACATGG  
AAAGGNAVATA ACTGGTACCA GNCAGTCAA AAACATACCA AAATGTGAAA GGGA

SEQ ID NO:741: (Length of Sequence = 290 Nucleotides)

AATTATTTCA TAATAATGTA ATAAACATTC ATGAACATAC CCTATCAAGC AAGAGCTAGA ACCTTGGCAA TCATTTCTTT  
GACTCCTCCA GTTGTGGCT ATCATGATAT TCAGCCCAA GTTCATCATT TCTGTTTTIN CTTCTATACA GGTTCCTTAT  
ATGTAATTTCT AAAATCAITT GGTATTTTCA TCTTTGTAAG AAGTCATTTG NCTATTTTCC CCACTAGTTC TACATTGCAT  
TCATATTGTT GTGGGTTGTC GTAATTCATT NATTTTGAAT GCTGTATAAT

SEQ ID NO:742: (Length of Sequence = 274 Nucleotides)

TTAAGAGGAA AAGTATCTTT AGGAATTTNT TTCTATAGAG TTCTTCATTA ACATTTATAC GAGTTTTTTG CTGAGTCAGA  
TGGACAGTTG GGTTCGTATG CTTTTCCTT CCCGCTGCC AGGCTGGCC AGGCAGTCT CCCACCANTC TATGAGOGIN  
TCCGGGGCCG NGGATCTGGG CAGCATCCAT GTTGCCGGGG CCATCCCCAG CGGNACCACA AGGTNGCAGC GTTGNTCCAC  
GAAANACCGN CTTCCGCTC TGCTTCCCA AAGG

SEQ ID NO:743: (Length of Sequence = 398 Nucleotides)

TTGCTTTGCA GTTATCTGGA ACTCCTCGTG CTCTTTCAGG AGCTCCTGGG TGTCGTAT ACTGGAGCCC GTGGAGGTGT  
GTGTGGAAAG GTAGAACTG CCATTGTCAT GGATCCATTC CAAAGCCTGC TTGGCACTCC TCTCAAAGAC CAGTACTGC  
TGACACTGGT CCAGCCGTCT CTTCCTCATG GTCCAGTAAT GCAATACCT GTTCTCCCGT TGGAAGAGIT CATTCAGAT  
ATTTTTCAT TGCTGTTCAG GAGCTTTGAT GTGGGTACC ATTCTGGCA TGTTCAOGCT GTTCTCTGTG CAGGTATTTT  
AGGAAGACGT CTGCATTTCT CCGAGCAAGN GGTGCAAGCC TTCAGGAATG CCTCCTTTNC TNCAGGGTGC GGTTTTCA

SEQ ID NO:744: (Length of Sequence = 359 Nucleotides)

TGCGACAGAG TCTTGCACTG TCACCTGGGC TGGAGTGCAG TGGTGCAATC TCAGCTCACT GCAACCTCTG CCTTCCGGGT  
TCAAGCCATT CTCCTGCTC AGCCTCCAG GTAGCTGGGA TTACAGGCAC CTGCCACCAT GCCAGCTAA CTTTTGTAT  
TGTTTTTTTT AGTAGAGATG GGGTTTCACT ATGTTGGCCA GGTGGTCTC AAACCTCTGA CCTCGTGATC TGTGGCCIN  
GGCCCCCAA AGTTCCTGGA GTACAGGCGT GAACCAACGN GNCCTGGTGG GGCTGCTTAT TTAAATCCCC TAGAAGAGG  
GATTCTNCAG CTACACCACA CCTTAACITT NGAAGGACC

SEQ ID NO:745: (Length of Sequence = 361 Nucleotides)

CCCTTAATTA AAAGTTTTAT TTTTAAAAA CGTAACAGAC CACTCTAAGA AACTTTGGCA TTCAAAGCAG TAGTTACTGT  
TATTTGCTAA CTCTGAAAAA AAAATTTTNC CCTTCACAAA CAACCGGCAA ACTCCTGCCA CTTCTAGCT TGTGGCTGC

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CAGCGTGCAC TGCAGGGAAA CGGTGGGTGG AGGGATAGGA AGGCCCTCAC GCTCCCAACC CACGGAGAAA NTGCAGATGG  
 TGACAAGCTG CATCTGGACT CCAGGNTGTA TCTGACAAAG AGGGAGATGG TNCCTCCNT CCCCTNCACC AGCTCCACTT  
 TTINCTGCTGA AGAAACAGAG ATGTGGAGGC AGGCGTGACC T

SEQ ID NO:746: (Length of Sequence = 285 Nucleotides)

GIGTTTTTAT TTATACCTAC AAAAAGAAAA CAAGATGATG GTATCAAAG GACAAITTTAC AAAC TAAGAA TAGTAACATA  
 GCTTTCAGCA TCCTGTGCCT GAACATCACA CATCTACAAG TCITTCAGN CTTAATGCAA CAGGAATNIG TCTGGAGACC  
 AGCAAGANCA TCAATAGAGA GCACTGNTCC CAAGCAAAAG CCACTAACCT TTTAGATGAG AAGTCCACAC AACGGATTNT  
 TAGGGGAGGA TTTGGGNGAA GCAGCCCAT TGTCTAATAC ATTGG

SEQ ID NO:747: (Length of Sequence = 302 Nucleotides)

CAATGCAGTT TTAGAGTGCT CATCTTTCA ACTTATTTGA CAAATATTTA CTGAATGTCT GCCATAAGGC AGTAAAGGCA  
 CAGAATGACT CAAAGCCTTT TNCCTTAT GGGGTGTAAT TNCAGTGGT GGAGACAGAC AATGAGCAAG TAAACAATCA  
 ATCGGCTAAT GATACTACT GTGAAGAAAA TAAAGCAGEN CAAGGGAATA GAGTATGCCA TCATTAAGAC TGGTTAGGGA  
 AAGCTTCTTT GAAGACATGG CAGCTATTGA AAACCTGACT GATACAAAGA AGCAAGTCAT GT

SEQ ID NO:748: (Length of Sequence = 346 Nucleotides)

GAGACCAGCC TGGGCAACAC ACTGAAACCC TCCTCTCTAA AAAGAAGAAA AAAATAAGAG TTTTGAGTTT TTCCAAAGAA  
 GAATGCTCAG TACGTTTGIN ACTATCAGA AAGAAGAATC TGAGGTCTT GACGTGTAAA CAGAGTGTG GGTACCATCT  
 CACCAGAATT GCTGCCCTGA AGCCAAAGGA CTGAGCTGCT CAGATCTGGA AGTAATCTGA GCCCCCATTT CCAAGAAGAG  
 AATTGCAGAA TTTTATAGGA AGAAGGGACC TGATCCCTGT CAATGGAAGC ATTTTAAAT TTTTAACTGA AGTTCAGGA  
 GCATACAAAA AGCCAGGNA TTTACC

SEQ ID NO:749: (Length of Sequence = 325 Nucleotides)

CTAACTTTA TTTTCAAAG CTTAAGGCC AAATACAAAC TGAGGTCTTC CTTCCTAACA AATTAATACT AAAATGAAAC  
 AGCTTTTNTT GTGTCTTAA GACAAAATAA GGAAGGAAAA CGTAGCTGCA GTGTGCCAG ATGGATATTG GTCTTTTAA  
 ATATATCTGA AAGTAGTAGT CAGAATGANT TATGGTTGGA AAAC TGAGEN ATCTTCTGGT TGCAGGTGCA AAGTAGCTTT  
 NTTTATCTT GTCTAGTCT CCTTGATAGC CACTTCATC TGCTACTACT CAACITTC TCATAAATAC TTCATCTATT  
 TTCAG

SEQ ID NO:750: (Length of Sequence = 341 Nucleotides)

TGTATTTTNA GTAGAGAAGG GGTTCGCCA AGTTGNCAG GCTGGTCTCG AACTCCTGAT CTCAGGAGAT CGGCCTGCCT  
 CGGCCTCCCA AAATGCTGGG ATTATAGGCG TGACACTGTC TCTGGTTTAA GAGAACCATG GGCTGAGATA TINAGGAATT  
 CTCAGGCCA CGAATCTGG GGCATGCAGC CTCTCCGTA CCCCACAGCA TCTNGGGGAG CTGGTGTGCT GATGGGGTCA  
 GCTCTCCAG CTGCCGGA AATTCTCAGA CACTCCCTAA GAGGACATCT CCCCCCTNC CACTCTNACG TCACTGCTTT  
 CTAACATTC TCATTGTTT G

SEQ ID NO:751: (Length of Sequence = 377 Nucleotides)

TTTTTTGAGA CGGAGCTNG CICTGTACC CAGGCTGGAG TGCAGTAAGC CCATCTCTGC TCACTGCAAG CTTACACCAT  
 TCTCTGCT CAGCTTCCA AGTAGCTGG ACCACAGATG CCGCCACCA TGCCCGGCTA ATTTTTTGTG TGTGTGTTTT  
 TAGTAGAGAT GGGGTTTAC CATGTTAGCC AGGATGGTCT GGCCCTCCAG CTTCCTCTGA GTCCCTTCAT AAACATTTGT

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TTATCTTGTA AAATAATTG TTCCATTTCT AATTAGTACA TAATGAGAGA GGCAGTGTGA TGGTTTGTGC CTAAGNCCTT  
TCTTGCCAAG ACITTTCAAAG CCAAAAACCTT CANCAGTTTT CCTAGATGAC TAGACAG

SEQ ID NO:752: (Length of Sequence = 359 Nucleotides)

AAGTCAGGCG TTCTTGGGCG AGCTGTCTG TGAAGTTGGT GGGACGTGCT ACCCTGGGCC AGCTCCAGGT GAGCNTGGCT  
TCGGTGGTCC CGTGGGCTC CTNAGTGGCG AGGGTGAGGC CTGGCACTGG GCCTCTAACT GGCCCCGTGG CCTTGCACTC  
TTTNGTGTG GTGTCCCGCT TGCCCTTTNT CCGGCTGTTC CAAGCGCTGC TAAGCCTCAT CENCCCNAG TACTTTNACA  
ANCTGGCGCC CTGNTTGGAA GCAGGTGAGT GGCCATCANT CGTGGTCATC TTGNCCTCAT NATCCAGCT TTGGCCCGCTG  
GTGGGGCTCG GCAAGCAGCT TCTCCTTGGG GAGGTCTCT

SEQ ID NO:753: (Length of Sequence = Nucleotides)

AGCTTCAACT TGGAAAGAAG GATGATGCAG TTTTGGGCCC TCCGGCCATC AATNACCGAC AGCNCCTTGA CCTTGCGGGA  
AGCCAGGIAT ATGINTTCAG TGGAGCCAG CTCCTTCTGG TGCCTCTGGT AGGCTGAAAA CATCTTTTCA AAATCCTCTA  
GGTCCAGGT COGAAATACC TGCAATGCAT CAATCTCATT CCATACGGTG CCAGGGACAC GCTCCTCATT CAGCTTCACC  
CAGTTGAAGG ACTTCAGTGG GTGAGAAGGC TGGGGGACAC GCTTTTCTCT GAGTGGGACG

SEQ ID NO:754: (Length of Sequence = 342 Nucleotides)

CTGTGAAGT GCAGGTGTGA TCCAGCCAGT ATAGAACTAG CTCGTAGGG GTGAGGAGGA CTGNCCTGTG TATCATCCTT  
GATTGTNTTC CTTCAAGGAG CATTGCACTG TAAGTACATC AGAATGACAA ATTGATGAAC TGCAACAGTA TCTTTTGTG  
AATGTTCCAC ATAATGCAAA TGCCATACGT TGTGTGAATA TTATGTTGGA ATACAGTGTCT GATATCTTGG AAAACCATAA  
CTGCCCTCTA ATTTAACATA GNGTAATACA TAGTNCCTGA TTTTITTTAA AGTGAGCINT AATGGGNAAG TATTTTINAT  
ATGCTTTAGC TATAGCTAAA GG

SEQ ID NO:755: (Length of Sequence = 321 Nucleotides)

CATGCCATC TTCTCAGTCC TTCTCCCTTT CTTTCCAAGT AGTTTAAGGC CTTAGGGCGA AGGTGGCTTT TATTTCTCTT  
CTTGGGGGAG GAGGGGGAGG GAGCTTTCCC AAGCACATCA ACCTAAGGAA GGGGTGGTTG CCCCCCAGC AGCGAGGGGC  
TGGAAGTCT GATCATTCCG AAGGAAGGGT TCGTTCTGT CCACCTTCTG GCCCTTGGCT GCAAGGGTGT GCTTNGCAGG  
GGTCACTCCC CTGGGGGGTG GCAGCTCCTG CATCAGTNGA GGGCACAAGG AGGTATCTGC TGGTGTTCAC GAAGAGGAGG  
G

SEQ ID NO:756: (Length of Sequence = 368 Nucleotides)

TGGCATGGTT GCATGTNCT GTAATCTCAG CTACTTGGAG GCTGAGGCAG GAGAATTGCT TGAACCTGGG AGGTGGAGTT  
TGCAGTGAGC CAAGATGCA CCACTGCACT CTAGCCTGGG TGACCGAGCA AGATTCAATT TCAAAATAAA TAAATAAATA  
AATGAGAAAA AAATATAGAT ATAGTAAAGG GAACAATTAC ATTCTACAAT ATTTTAGCAG AAGTAAATAT GGTTTAATTTC  
AATGGAACA GCTCTGCTCT ATNGAAAATT CACAAATATT AAAAATAAAC ACACCTTACA TTAAACCTCT GAGCACTAGA  
NGCTTACCTA CTAATTCATA GGGCTACAT ACTGTAAAGG GGGTAAAT

SEQ ID NO:757: (Length of Sequence = 339 Nucleotides)

CTTCCACTGC CAGGTATATG TCCCGGGAAG CCCCCACCC CCTCGNITTC CTCCTCCGCT TTCCCTAACC CGTCTCGGG  
GGCATCTAC GNTCTGCTCT CENCTCTCT CTNCTCGAAC TCCCTTGTG CTGCGGCCGT GGCGTCTGG TACTGTGGT  
ACTCGGACAC CAGGTGCTTC ATGTGCTCT CCGCTCGGT GAACCTCATC TGTCCATGC CTTNCCGT NTACCAGTGC  
AGGAAGGCCT TCGNCGGA CATGGCCGT AACTGCTGG AGATGCGCTT NAACAGNTCC TGGGATGGCC GTGCTGTTC  
CGATGAAGGT GGCCGACAT

SEQ ID NO:758: (Length of Sequence = 356 Nucleotides)

TTTTTTTGTA TTCTTTTGT ATATGGGTTA AATGTTCCG TTATATTCC TAATTGGCTA TTGCTCGTAT AAATAGATGT  
GGTTTTAGGC ACATAITTTA TATCTGGCTC CTATACTAAA AATCTTTTAT CATTTCCAAC AGTTTTCAGT TATGCTCTTG  
GGTTTGAAGG TAGACAATAA TGTCATCTAC ACATAATGAT ACINCTGTTT TCNCTTTTTA AATGCTTATA GCTCTTTNAT  
TTTATATGCT TTGCTTGTGC TATAAATNCT AGAATGAAGT TAAATAATCA TAGCAGATAT CCTTTTCCT GATTTAATTA  
TAATGCTCCT GAAATTTTAT TAAGTATGAT GACTGT

SEQ ID NO:759: (Length of Sequence = 333 Nucleotides)

GCCATGTGGG GCGGGGAGG GGGTGGGTC GGGCGGGGG GACGGTCAAA GACTTCATAA ATAAGAGGCG GGTCCAGAG  
CCNCAAAITTT GTCAACATGT CTTAAATAGG TGCATTATTT AAATCTTATG TACAACAAGA ATCACTTTGC ATAGCAATGG  
TGAGGACACA GGACGGGTGC AGTGATGTGA CTGGGTCCTC TTGTCCCAAG GCGGGGGGGC GAGTTCCGAG CTCAGCTCGG  
AGCCTCTAGG AAGAAAGCAT CCTTCGTCCG GCCCGCAATN GTGGCATCGG AGTTGACTTT TCCACACGA CGGCATCAAN  
CACAAAGGCA AAG

SEQ ID NO:760: (Length of Sequence = 311 Nucleotides)

CGTCTCTCT GCCCAACCCG CCCCCACCA TTGCCGAGGA GGCTGAAGAT GGAGATGGGT CGGGCAGCAT CTNCGGTTCC  
ACCGGAGACC GCTTGGTGGC ATCAGCTTGC CCGGCCCGGC CGCAGATATT CCGGCCTCGA GAACAGCTCA TGCTGAGAGC  
CAACAGCCTG AAGAAAGCAA TTGTCAGAT CATAGAACAC ACAGAAAAAG CTGTCGATGA GCAGAATGCC CAGACCCAGG  
AGCAGGAGGG CTTCGTCTG GGGCTCTNIN AGTCAGAGGN GAAGATNGAC CACAGAGTTT GNCCACCACT T

SEQ ID NO:761: (Length of Sequence = 314 Nucleotides)

TTTTTTTCT TTTTTTAAG AGACAGGGTC TCACTCTCTT TCCAGGCTG GAGTGCACTG GCAACGATCA TAGCTCACTG  
CATCTCGAA CTCTGGGCC CAAGGATCC TCCCACTTG GCTTCCCAA GCACTGAGAT TGCAGGCGTG AGACACCTCA  
CCTGGCTTGT CTGAGAACAT CTTTTAAAAA AATCCCTTC TCTGGGTTT TCTGTTACCC ATATGCTAC TCAATTTGGT  
TGCTCAGCT TTGTTGTGT AATGCAAAAG CAGCCATAGA CANTACATGC ATTGAATGAG TGTAGTGCAT TCCA

SEQ ID NO:762: (Length of Sequence = 319 Nucleotides)

ATAAAGGTAT ATAAAGTTG AAATTAAAAG ACACATATCA TGAAATACT AACAAAAAGC TATAATAGCT ATATTAAATAT  
CAGGTAAAAT AGACTTTAGG ACAAAAGCAT TATTAAGGAA GGGAAAGTTG CTATAATAAT AAAAGGTTGA GTTAATCAAA  
AAGATATAAT AGTTTTAAAC ATTATGCATA TAATTAANTT CCTCAAAAAT AGACAAAGCA CATATTGATA CTTAAGGNAG  
AAATTGATAA ATCCATCACC ACAGTGGGAA ATTAGGAAGT TTCTGTACAC CTCTTTCCT TGTGATAGG TCAAATGGA

SEQ ID NO:763: (Length of Sequence = 369 Nucleotides)

TCCAACTCC TGCCAGATAT AATCTTAAAA ATCTGTTTGT TAAITTTATT ATTTTATTT TGGATTTTAA AATGCTTGGG  
AATTGGGAGA TATGCACAA TGTCTTGTCT TTGTTCAAA AATTAAATGC GTATTTGGGT ACTTATAGGA CACTATTGT  
AAAAACATTT ATTCTTCAG ACATTGATGG TCTTGTCCTA GTTATTAACA ACATCTACAT GTTTAAGAAT AAATTTCCTA  
TCTACTTCTT ATTCCATTGA AAATTACCTT TCTATCTCC TACTCTGGAA GTCTTTATGN ATTCTGTCTT AATCATTAGT  
ATCCCATTCG TTCTTCAAGA GGATGTCTGT CCAGTAGGAA TTTCTCCA

SEQ ID NO:764: (Length of Sequence = 381 Nucleotides)

CGGGTAGCAG TTGCTGAGTG TCAGCTAGAC AGCAGGACT AGGGCTCGGG GCGCGCGAG ATGCCCTTNT TCACCGCCAA  
CCCCCTCGAG CAAGACGTGG AAAAAGCCAC GAATGAGTAC AACACTACAG AAGATTGGAG TCTTATTATG GACATATGTG

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ACAAAGTTGG AAGTACTCCT AATGGAGCGA AAGATTGCCT AAAAGCCATA ATGAAAAGGG TAAATCATAA GGTTCACAT  
GTTGCTCTGC AAGCACTAAC TCTTCTTGGG GCTTGTTGG CAAACTNIGG AAAGATATTT CATTTAGAAG TATGTTCCCG  
TGGATTTTNC AACAGAAGTA CGTGCTGIGA TTAAAAATAA GGGCACATCC TAAAGTATGT G

SEQ ID NO:765: (Length of Sequence = 329 Nucleotides)

TTGTCCTCTT GATGCAGGAG CTGAGGAGCT GCACAGAAGG TTAAAGAGC TGTAACACAA ACAGGGCTGC AACATGCCCC  
TTGCTCCCCA CAGGGAGAGA AGAGCTCTGG CCTCGGAGA AGCCAGACC TGGGAGCTCC TTGAGCCCGG GCTGTGACTC  
CCTCTTTGGG GOCCTGGTGG GCGTCACTGC ATTGOCAGT GCCACTGTTG GAAGCTGCCT GTNATGCGCC TGGTCCAGGG  
GGAAGCTGTT TGTTGTGTGC CTGGTCCAGC CACCTCATGG AGAGCCTGTG CTGGCACCTG GGAGCTGCCC AACCTGGGCA  
GCAAGCTTT

SEQ ID NO:766: (Length of Sequence = 321 Nucleotides)

GCACTGGCAG GTAGATTTTA TTGGCCTGGG ACACACAGGG GATACCTCA CCCACGATGG GTTGGGGGGT GTGGTGTGA  
AGATATAATC TNATGGTCAC TTGTGGTAGA ATGCGGGTT CTGGCTGINT TGGATGAAGG GGAGCCGAGG GCCAGGTTGG  
CTGGTAGCTG CAAACCGAC TTTCTGCTG GCTGCATCTG CACAGGGAGC TGGGGGGAAG CAAGGAGTCC AGGGGCTGGA  
TGCAAGACTT GAGTCGGAGA AGCCAGTCTG CTGGTTAGCA TGINCCATCT GCTTTTNCAG GGNACAGGCA CCACCAGGCT  
T

SEQ ID NO:767: (Length of Sequence = 313 Nucleotides)

ACCGCCCCTC TAGTTCACIA TTCTGTCCCC GGTACCCAGG GCATCATAGA CACTCAACAA CCATTGCTTG AATATGCAAT  
TGGATGAAAT GAATAACGA CCAGAGGAAT AATCCAGACA GAGCAGCAGT GGCCAAGGGA AGGGAGGATT GATTTATGGG  
AGAAAATTAG GGAATGAAA TCCATAGAAA GGGTTTGCTT AAGTINAGAGT GATGACTINGA GCCAGAAGAC ACCCGGGGGA  
GAGGAATTNT TTCACATGGT AGGAAAAGGG GAGGAGGGAG AGAGGTGGGG TGGTGGAGIN CAGCCTCGAG GCT

SEQ ID NO:768: (Length of Sequence = 372 Nucleotides)

TCTCTCTCT GCTGTTTAT ATTCTGCAG TCCTTAGTAA CCCTGTGGC CCCTCTCTA CTAGGTCTC TCCTAACATG  
TATCTATGAC ACATTGATCC CTAACAGCTA TGATCTINCT TATACTTTIN CAGTAATTTA AATTTTATCA TTCTACTGCT  
TGTTCAATAC ATCTCTCTAT GTAAATCTTG ACTCCATAAT GAGGTTTTTA ACTTCGAAGG GGTTGGAAGT TATCTGCTGC  
CTGGTACCC CCCC GCCATT ACACAAGAGT ACATTTTAAAG CACATTACAC CTGAGTGATT GTNGTAAAC ACAGATGCAA  
TCTTTCCACC ATCTCTTAGG AATCTCTCTG TGGGCTTTCC ATGGGTTAC CC

SEQ ID NO:769: (Length of Sequence = 321 Nucleotides)

GCAGCCAGAG CTCCAAGGCT CCCC GGCG AGCTGACCGC CGAGGAGGCA GCAGGCGCTT CCCC CGCGAA GGCCAACGGC  
ATGGAGAATG GCCAGTGAA AAGCAATGGA GACTTATCC CCAAGGTTGA AGGGAGTGC CCCCCTGTGA ACGGAACAGA  
TGAGGCAGCC GGGGCCACTN GCGATGCCAT CGAGCCAGCA CCCCCTAGCC AGGGTGCTGA GGCCAAGGGG GAGGTCCCCC  
CCAAGGAGAC CCCC AAGAAG AAGAAGAAAT TTTT TTTCAA GAAGCCTTTC AAATGAGCG GCCTGTCTT CAAGAGAAAT  
C

SEQ ID NO:770: (Length of Sequence = 364 Nucleotides)

TTAAATCAGG AAATGTGATG CCTCCATCTA TGGTTTTGA AAGTCATCAG CCAGAGCTAA GGTAATGAGG ATTCCCTCCT  
TCATGTTTAT ATGCTTTTAC ACTGTGACA ACTGTCCCTA AAAAAACAAA CCCC TGCCCA ATTTCTCCAG GCTTATGCTC  
TCCCGGTTT CAGTTACATT TCAGCTTAGC ATTTTCAAAA TAACAATTG TTCTTGGCAG CCTGTCTATA TATTINATTT

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ACCTCTCTTG TTATCCCCAC TTTTCATGCT CTATGTCCCA TAGGCAATTT GACAAAGACT GCTTTGACAA AGGATTCCCTA  
GACTTCTATC TCTACCTCTC ATCTGACTTG GCGGAGGAT TAGG

SEQ ID NO:771: (Length of Sequence = 357 Nucleotides)

CAGCTCACTG CAACCTCCAC CTCACAGGTT CAAGTGATTG CTTCCTCAN CTTCCCAAGT AGCTGGGACT ACCGGTGCAC  
ACCACCATGT CCAGCTAATT TTGTATTTT TNATTAGAGA CAGGGTTTCA CTATATGTTG GCCAGGCTGG TCTCAAACCTC  
CTGACCTCAA GTGATCCGCC CACCTCGGCG TCCCAAAATG CTGGGATTAC AGGTGTGAGC CACCATGCCG GGCTAAATTT  
ATAGCTATTT TAGAATGTTG AAAGTAGTAT TATGTGATTT CAGTTTGCCA TAAATTTTTC ATATGGTTAC TAATTATTTT  
TTTTTTGTG GATATATCTT CTGAAATCT ATTGAGG

SEQ ID NO:772: (Length of Sequence = 359 Nucleotides)

CCTCTCAGGA AAACACCTAG ACATTATGTA ATGTATTTGA AGATTAAATG ACCCTTTAAC CAGCAGTTGT GTACCTAGGT  
ACAAACTTTG CAAGCACACA CGCATGTNTG TNCCAAAAG CACATACAAA AACACTCCTA ACAGCATTAT TTGTAATAAT  
AAAATATAAG AAATTACCTA AATATCCATC GACTGCCAAT GGTAGTATGG TTATACAATG GAATCTACA CAGCAATGAA  
AAGGAGCTAG AGCTACATGC AACACATGG ATACAACCTA CAAACGTAAG ACTTAGTGGG AAAANGCTAG ACACAAAGTT  
AACACCTTCT ATATGTGGGT TCCAGTTATA TAAAACCCA

SEQ ID NO:773: (Length of Sequence = 361 Nucleotides)

GAGCCTACGG CAGAAAAAGA AACATCTTCC TATAAAACT AGACAGAATA ATTCTCAGAA TCTGCTTTGC GATGTGTGCG  
TTCAACCCAC AGAGTAAAC TTINCTTTG ATAGAGCAGT TTTGAAACAC TCTTTTGTGTA GTATTTCAT GTGTATATTT  
AGAGCGCCTT GAAGCCTACG CTAGAAATGG AAATATCTCC CCATAAAACC AAGACAGAAG CAATCTCAGA AACTAATGTG  
TGATGGCTGC ATTCCACACA CACGGTGGAC CATTTCTCTT GATAGAGCAG TTTTGAAACA CTCCTTCTGT AGAATCTGCA  
AGTGGGATAA TTGGGACCTC CTAGAGGGCC TTCGTTGGAA C

SEQ ID NO:774: (Length of Sequence = 387 Nucleotides)

GTTCGCTCT TGTTGCCCAG GCTGGAGTGC AATGGCGCAA TCTGACTCA CCACAACCTC CGCTCCCAG GTTCAAGCAA  
TTCTCTTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGC ATGCGCCACT ACCCCAGCTA ATTTTGTATT TINAGTAGAG  
ATGGGGTTTC TCCATGTTGG TCAGGCTGGT CTGAACTCC TGACCTCAGG TGATCCGCTT GCCTCGGCTT CCCAAAGTGC  
TGGGATTACA GGCATAAGCC ACTGCGCCCA GCCAGAAGAT GCATGATTTT TTAGGATCAT ATGCTGTTTG TAGCCATAAG  
GTAAATCATG TCTCTTCCAA TCATGACTTT TGGGAACCTC CTGAATAATA AAAATGAGAG TTGAGAT

SEQ ID NO:775: (Length of Sequence = 401 Nucleotides)

GAATTINICT TTCTGCATCG TTCTGTCTATA AAAAGGGGTA CTACTATAGA ATAGAATGCA GGCTTAGGAC CCCCCTAAGC  
TCACTGTTC AACCAGCCCA GCAAACCTGGT CAGTTATAAA TTTTCTGCA GGTCCCTGAA ACAACAACAA AAAACTGGAT  
GAGGTTTCCC TCCCATCTTG TTTTATGTCC TTGGGAGCTT GACCTTATAA CCATACGGCG GTACTTTTNC TTGGTCTCTG  
CCATCCAGGG AACCAGAAAT TGGGGGGTTA TGTATAGTT AGCTCTAAAA ATTATCTTGA GCAGTTAAAA GCCTTTGCAA  
GCTTAAATTT GACTGCTGTA GGTTCCTTCT GGGGAAGGAG CAATGGGAAA CCTTNCCTAA GCTTATAGCT CANCCAGCTG  
A

SEQ ID NO:776: (Length of Sequence = 345 Nucleotides)

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AACACTGGGT AAGCACTTTG TATGINCTGG GCACTCTGCT AGAGATAATG TGTCCTGGAAT TGGTGGGTTT TTGGTCTCAC  
TGACTTCAAG AATGAAGCCG TGGACCTCG CAGTGAGTGT NACAGCTCTT AAGGTGGCGC GTCTGGAGTC TGTCCCTTCT  
NATGTTTCA GATGTTTCANA GTTTCINCTT TCTGGTGGGT TCGTGGGTCT CGCTGGCTCA GGGTGAAGC TGCAGACCTT  
TNOGGTGAGT GTNACAGCTC TTAAGGCNGC GGGTCTGGAG TTGTTGTGNC CTCCCGGTGG GCTGTGGTTC TCGTGGGCT  
CAGGAGTGAA GCTGCAGATC TTCGC

SEQ ID NO:777: (Length of Sequence = 229 Nucleotides)

ATTGGGGGAA CCAAGCCCA NTAATGCTAT GGCCTGTGCA GACTTGTAGA GGTACTGCCCT TCATGGTCTT NGGTAAGATC  
TGGGAGAAIT CCTGGGATTA CCAGGCAGAA ACTCTNATTC TCTTGCTTA CTTCOCCCA AACAAATNAG TCTCTCTCTC  
TCTCTGTCT GAGCTGCTTA GAGCTGAGGG AGGGGGTGAC ACAAGCACAG CTATGTACC AGGAAGCCA

SEQ ID NO:778: (Length of Sequence = 361 Nucleotides)

CAGAACTCA GGAATAAGC CATTAACTTT CAAAGAATAT GTGTGTGTGT TCGATATTTT CCATTCCTAA TCCACATCCA  
CGTTGGTCAA GTAGAGCTTC CTACTCAGAA GCACAGCAGT TGCCATGGTG TTCTCTTCCA TCTGAAAGCA GCAATTTTCC  
GCAGCGTCCA TTACAGAAAT GTGCCATATT TACTCAGATT CTAATGTATA TTAAATATGC TTTGGAAACT TAACAAGAAA  
CGTCAAGCN CTCAGTAAAG AAAAGTTGTA GAAACAAAA ACTGAACAGC AGGCTTCTAG TTCTCTCTCT CCAAAATGG  
CCTTAGTGGG ATTCAAAAAT GGAAGTGTG AATAAACTG C

SEQ ID NO:779: (Length of Sequence = 392 Nucleotides)

CCTAAGATGC CTGGCACAAT CAAAGACCTT TGGTGGCTTC CAGCATTTAT AAGGCAGAGT CCAAACACAC ACTTAAGAAT  
GACTTACTCC TCCTGGCGAC CCCACCATTC CCTCACCCCG CTTTGCTCT GTCTCTCTGT GGAGCTGCC CTGCCCTTAA  
ACACTGCCCT CTCTCTACCA ACCCGGACCA TATTTCCCT CCTCCCTCA CCAGGTCCAG CAGTACCCAC CAGTTTGTG  
GACATCTCCC CAAGGAGCTC TCACGTATCA GAAGCAAGGA GTTAGCCTTC AGCCCCACCT CTGTGCTTA GGTCTACAGT  
GAGTNTCCAG TGATGCTTCC TACCGACTGC TTGGGGGTGC ACAAGAGTNA GGCCAGCAAG ATNCCAGCGG AA

SEQ ID NO:780: (Length of Sequence = 453 Nucleotides)

CTCTCTATTT TCTCTTTTCC TTTTGACCTA CCATAGGAGA CAGATTGCTC ATCTCCAAAT TTCTCTGCTG TCTGGGANT  
GCCTGGTTT CAACCTTGGT TAGGGTTGG CTTAGGAATA GCATAATATC CCTTTGTGAG AGGTTAAACA CTTGAGTTAA  
ATTTTGGAGG CCAGGTGTGG TGGCTCATGC CTGTAATCCC AGCACTTTGG GGGGCCAAGG TGGGCAGATC ACGAGGTGAG  
GAGATCAAGA CCATCCTTGC CAATATGGTG AAAACCCGTC TTTACTAAGA ATACAATAAT TAGCTGGATG TGGTGGCACA  
CGCTGTGGG TCCAGCTAC TTGGGAGGCT GAGGCGGAG AATGCTTGA GNTGGGGAA GTGGAGGTG CAGTINAGGT  
GAGATGCGC CACTGCATN CAGCCTGGN TGAGAGAGCA AGACTTCCGT TTC

SEQ ID NO:781: (Length of Sequence = 306 Nucleotides)

AAGCTACTCG GGAGGCTGAG GTGGGAGAAT CGCTTGAACC TGGGAGACGG AGGTTGCAGA GAGCCGAGAT TGGCCATCA  
CACTCCAGCC TGGGCGACAG AGTGAACTC CATCTCAAAA AAAAAAAAAA AGAACCACTA CTNTAACTGA GAAATAGATG  
NITCCATTAA CAGTTTAGAA AATGTATATA ACTCTAATCC ACAGAGGTTT ATACTTACAA GCAACTCATG GTTTCCTTT  
TAAGGGCCAC ATGTGGAAAA TTAATCTGAA CAGTTAGTGC AAGGAGGAGT CATACTCAG TGGAAA

SEQ ID NO:782: (Length of Sequence = 443 Nucleotides)

GTCTGGGCT CCTGACCTCA GGTGATCTGC CTGCTCGGC CTCCAAAGT GCTGGGACTA CAGGCATGAG CCACTGCACC  
TGGCCTAAT CTACATTTN ATCTACAGCA GACCTTTTAT CATAAAGAG TTTCTATAAA ACATTTCTCA AAAGAAAAA

236

TGTATTGACA TTCTATTTTC TTTCTCCTCC AGATACTATT TTTNGGATTT NAAACATACA CAATACTTAG GAGACTTGTT  
 TTAAGTGCAG TGGAAAATTT TNCAGGGAC AAAGTCAACA CAANGAAACA AACACAAAA AATAGCCAGA AAGAGAACAG  
 TTAAGTGCAG CTGGGTGAGT CCCGGCAGTT CCTTCCCGGC ACTGGCTCGT CCCTGGGGTT CTCAAGGTTT CATGCGGCCA  
 CAGGTCCGT CCACCTGTT CACGAGGCC ACATGCTGGA ATT

SEQ ID NO:783: (Length of Sequence = 350 Nucleotides)

CATTGAGGCC GGGCACAGTG ACTCATGCTT GTAATCCAG CATGNTTGN GACATAGCAG TAGGGACTAT CGACAAAGAA  
 ACACACAGAG GGAAAAAGAA TTCCACATTT GGGAGGCTGA CGCATGAGT TCACCTGAGG TCAGAAGTTC AAGACAAGCC  
 TGGGTAACAT GGTAAACCC CGTCTCCACT AAAAATACAA AANITAGCTG GGCATGGTGG CCTGGGGCTG CAGTCTCGAC  
 TACTTGGGAG GCTGAGGCAT GAGAACCTCT TGAACCCGG AGGTGGAGT TGCAGTGAGC AGAGGTCATG CTACTCTCAA  
 GCCTGGGGCA ACAGAGCGAG ACCCTGTCTC

SEQ ID NO:784: (Length of Sequence = 265 Nucleotides)

ATAACTGAAA AATGGAAGAA AATATTTGCA AATTACACAT GTGAAAAGCA GTTAATATCA AAAATATATA AGANACTCAA  
 AGGACTATAC AACAAAAAC AAATAACCAT GAAAAAATAG CAAAAGATAT ATATAANINA TTINCAAAGA AAGACATACA  
 TATAGCTTGG CAGATAGATG AATATGGCTC AAAGTCAATT ATCATCANGG AAAGGCAAAC CAAAACAACT CTAAGATATA  
 AACTCACTCC TGTTAAANTG TTAA

SEQ ID NO:785: (Length of Sequence = 363 Nucleotides)

GTAAAGNITG AGAAATCGGA TGGTTCCTGT GTCTGTGTAG AAAGAAGTAG ACATGGGAGA CTTTTCATTT TGINCTGTAC  
 TAAGAAAAAT TCTTCTGCCT TGGGATCCTG TTGATCTATG ACCTTACCCC CAATCCTGTG CTCTCTGAAA CATGTGCTGT  
 GTCCACTCAG GGTAAATGG AAAAAAAAA AGAAAAATGA AACCAGGAGT TGGCAATTAC TTTTTTTTTT TTAAAGACA  
 GAGTCTTGCT CTGTACCCA GGCTGAAGTG CAGTGGTGAG ATCTTGGCTC ACTGCAACCT CCACCTCCCA AGCTCAAGTG  
 AATTCTCCAT GCCTCAGNCT TTCAGAGTNA CTGGGGAITA NAA

SEQ ID NO:786: (Length of Sequence = 291 Nucleotides)

AACAACAATC AGCCACAATG TGCTTTTAAG GATTTAAGT ATAGTAAAGA TAAATGTGAG TNITAAGAAT GGGATTTTTA  
 GACTAGGCTG ACACAAGGGA TCTTCTTINA ATAAGGNTCT TGAGCATTTG TTTTTTTTGA GCTCATCCTT AAGGGCTGGA  
 CAGGAAGAAT CCTGTGTTAT GTGTGCATGT TGAGCAATGC AAAAAACACT CTGCCAAATC CTNGATACCA CATGGTCTNG  
 AGAAATGCAT GAGTGATTTA ACGCACGNT GGGTGTAGTC ATTATGTTCC T

SEQ ID NO:787: (Length of Sequence = 256 Nucleotides)

TATTTCTGTA TAATTTTINAT TATGACCATA AAAATAACAA TGTAGTCAAT AACAATTAA TTGTACATTT TAAAATAATT  
 AAAGTATATA ATTACACTGN TTGTAATAAA AAGTATAAAT GTTAGAGGTG ATGGATACCT TATTTACCTT AATGTAATTA  
 CTACACATTG TAGGCCTGAA TGAAAATATG CCATATAAGG CATAAATATA TACACATACT ATATACCCAC AAATACCAAT  
 AATAAATTTC AATAAG

SEQ ID NO:788: (Length of Sequence = 322 Nucleotides)

GGTCCAATGA AGCTTCACT CGTTTTGAG TCAAAGCAGA CGGCAATCA GCAAAAGCA AAAATAATGT ATCTTACTGC  
 ATTACAGACA AAAAAAAAA AAAAAACAGA GTGAACTAG ANCIATTTTC AATAGTAGTT TTCTGACAGC TATATAANCA  
 AATATAGANG ACATTATGGA ATTAGTATG TGAACGAGAA CTGTGTCATG TATCTGCCT GCCAGCAAAG GTAGAGATGG

237

CTGATATATT TGTAATGGTT TACTATGAAG GCTGTTCAT AACCTNCAAT ATCCACTGNT CTTGGGTGGT ATACCAAGGA  
TA

SEQ ID NO:789: (Length of Sequence = 357 Nucleotides)

TCAATGIGGC ATTTGTTTTT NTAGAAAAC CCTTAGTAA GCACTTCTCT AACCCAGAAT AGACACTGGG TATCCTCCAA  
GAGTCCATA GCCTTCATTT CATCTTCAC CCTCTCTGA GAGGGGGAGG CAGGGGATAG GGGTGGTGTG AGGCAGTCTC  
CAAAATGCCC CTCCTAGACC CCTGAGAGAA TTCATGTTGC CAGCAATAAA CCAACAGCAC CTCAGTGGGG CATCANAGGG  
CCCTCTAGGC TCAAGGCTAT TGCCAAAGGG CATTCTGT TTATGAGCTT CACGATGGGA ACCAAGGNAG GCTCTGCGAA  
GACTTCTAG GGGCTTGGTC CTCAACTTA TGGGCT

SEQ ID NO:790: (Length of Sequence = 366 Nucleotides)

TGGCCAGGCT GGTCTTGAAC TOCTGACCTC ATGATACACC CGCTTGGCC TCCCAAAGTG CTGGGAATAC AGGCGTGAGC  
ACTGCACCCA GCCTGTGTG ATCTTTTAAA GTACAGTTCC CATAGATTTA CATTAGAAT AAAAAAGTCA TGACATCTTG  
CTTTTATATG GCAGTTTACT CAAGCTTTTT AAAGAAAGAG CATTCATCTT GCTTTTACGT GGTTTTAGAA TGTTGAAAAC  
CTTTTGNIAA ATCTGAGTAA TTTACTGCAT TTCCATTAA TTCAGCTTAG TTAGACTGCT GGTCCAGTG CTTTGTTTTG  
CTGTACATA TACCCTAATA TGCTTTTAA CATATGNCCA AATTCC

SEQ ID NO:791: (Length of Sequence = 317 Nucleotides)

AACAACCCA ACCATAATGG AGAAGGAAAT GGCCAGAGTG GCCACTCTGC AGCGGGCCCT GGTTTTACGA GCAGAACTGA  
GCCTAGCAA TCTCTGGAA GTCTGCGCTA TAGTTACAA GATAGTTTGG GGTGAGCGT GCCACGAAAT GTCAGTGGCT  
TTCTCAGTA TCCTACAGGG CAAGAAAAGG GAGATTTCAC TGCCCATGGG GAACGAAAGG GTAGAAATGT AAAATTCCCA  
AGCCTCTGC AGGAAGTGCT TCAGGGTAC CACCACCACC CTNACAAGN GATATCTAG GGGGTACTCA AGAGCAT

SEQ ID NO:792: (Length of Sequence = 258 Nucleotides)

GATCAATATA TCCAGGAATT TGTAAGAA GA TCTAAACTT TTCAAACATG TCACAGGTAG TACTTGAAGT ATGCTTGGTA  
AAATGTACCG GTTAAAGCAG TATGTTTCTC AGATAGCCTG AGATTTTATT TAACAATTAT GTATCTAAGT CTACTAATAC  
ATTTAGCAA AAGAGTGTG GTTNCATAAA TAAGANGTCA GTATTTCACT TAGATTATTT CAGAAACTTG TAAGTNCCTG  
TAAATAGCTA CTCAGAA

SEQ ID NO:793: (Length of Sequence = 282 Nucleotides)

GGAATGACAT GGTCAATCTN ACTTAAAGA AACATTTAG GTTCACACTT GCCAAGTAG GAAGAAAACC AACCTTAGAT  
CCCTTCCCC CCACCAATAC TCCTTCCCC AAACACCGTC CCCACCGNC TCTATGTTA ATTGAATTTT TATTTGTGAT  
ATATAGAAA CCTAACCCAT GGTGTATG CTGAGTGTA TTGGCTTCA AGCTCGAACC AGGGAACAGC TTGGCCTGGA  
ACCTGAGAC AAGATGCTGG CCTCANAAGG TGGGGCTCA CG

SEQ ID NO:794: (Length of Sequence = 330 Nucleotides)

GTGAGGCTG CAGGGAGCCA TGTTCACCC ACTGCACTAC AGCCAGGGTG ACAACAAGAA CCTTTCTCGG CGTGAACCCA  
GGGGGGGAG TTGCAGTGAG CCAAGATCGT GCACTGCAC TCCACCAGCC TGGGTGACAG AGCAAGACTC CGTCTCAAAA  
AAAAGTTTAC TACTCGGCTT TAATTATTTT GTTGGTTTT TGGGTGAAAT NATTTTATTA CTGACTGGIT CCTTAGTTGT  
ACAGAAGCCT ATTATCTTTA GAGAGACTCT TCATGGTAAT TAACTCAGAT TCTTATTTTG CCTGGGTGAA AGGANGGCAA  
GTGGATCTAA

SEQ ID NO:795: (Length of Sequence = 332 Nucleotides)

GGAAATAAAG GTGACATGAA CTAACATTC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT  
CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGANGT GGTATCCAGA  
TAGGTTATCC TTGGAGAGTA TCCAGGGATG TCTCTTTNCC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG  
AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTNAGAATT CACGTAAGGN ATGATAATCT GAATTTCCAG GGCTAGGCTC  
AGAAGCAGAA AT

SEQ ID NO:796: (Length of Sequence = 305 Nucleotides)

CCCAAGGGGA CAGCCTGANC TCCCTGCTCA TAGTAGTGGC CAAATAATTT GGTGGACTGT GCCAACGCTA CTCCTGGGT  
TAATACCCAT CTCAGGCCT AAAGATGAGA GAACCTGGGA CTGTTGAGCA TGTTTAATAC TTTCTTGAT TTTTNCITC  
CTGTTTATGT GGAAGTTGA TTTAAATGAC TGATAATGTG TATGAAAGCA CTGTAAACA TAAGAGAAAA ACCAATTAGT  
GTATTGGCAA TCATGCAGTT AACATTGAA AGTGCAGTGT AAATTGTGAA GCATTATGTA AATCA

SEQ ID NO:797: (Length of Sequence = 337 Nucleotides)

GGCTGCATTA TGACAAGAAG TCAAGCTTCA TGACAGTTAG TATGGGCTGG AGTCTGCAA GTCTGAACTG TATTCTCATA  
GAATGATTCC AGGTTTCAGG GTGTTCCACC TGCCAGAAC CAAACTACA ACTATGGGCG ACACAAGGA AGTTTTAGAA  
ATCTCCCTCT ACACGCATTT CTGGTTTCT ATTATCTCT CATGCGAGCT GACAGATCTG GAAGTGNAAA TAGGGGATTC  
TCAAATCAA AGCCANGAAG ACACCTTGTG TGACACCAAT GGAGTCTCAG AGGGTGGGAA TAGAAGTGAC TTNGNCCCAG  
GCATTGCTG GGAACCT

SEQ ID NO:798: (Length of Sequence = 341 Nucleotides)

GAACCCCTGA AGGTCTAGGC TACAGTGAGC CATGTTTGCA CCACTGCACC CCAGCCTGGG TGACAGAGTG AGACACTGTC  
TCCAAAAATA ATAGTGATAA TAATAATAGT CATTTATTTT AAGTCTACAT GCTGAGATGC CAGAACAGT AAAATTGGAT  
TATAGATTCA AGCAGTATGT AGGTATACTT TCATAAAGTG AATACTGATG TAATTTTGA TGATTAAAA CAGNCTTTTA  
GTAGGTGTTT AAAAATCTGG NTAAATCCTT TCATGNCATT CAAACATTTA GGTGGCCTGT CTTGTGTTTT TTAGGNATA  
ACTTGCAAAC ATTCANTGT T

SEQ ID NO:799: (Length of Sequence = 322 Nucleotides)

TTTTTGAGTA ATGAATTCAT TTAATATAAA CTTTAGTATA GCAGAATACT ACAGGTTACC CAAATTTAAC CCTAAAAACA  
AACAAATGAC AGGCACTTCA GTGAAATAAC AAGCCCATGT TCAAATATAA AATGCTAAAA GTGAGAAAGA AATTATGAAA  
ATATATACCT TTAATTTGCA GACATATAAA CACTTTTGGT ACAGTACAGA TGCATGATGC CAAAAAGTAA AATGNTCCAG  
TTTAAGCTAA CACATTCCTT GTTATACAG NTATTTTINC TATAGCTCTC ATATAANANA AATATTNCCA GCTCACACAA  
TG

SEQ ID NO:800: (Length of Sequence = 405 Nucleotides)

ATCAAGAGTT GTGTGGTCTA CCGACTGAGC CTGCCAGATA ACCCTGTAGT ACAATTTTTN CAGCATAGTG GAAAAGAAAG  
CCATGNTCT GGGCAGGTCA GGGTTTGANC GCTAGTGNT TGTATTAATG ATCATGATGA TAGCTAGTAG ACAGGGCTTA  
CCAGATACTA GGTGCTCTCT TAACTGCTTT ACATATGTA GTTAATCAT TTAATCTTCA TGACATCACC CCTGAGATAT  
GGGTAAATAT ATAATGCACA TTTTATAGGT GATGAGAGTG AAGCACTTGC ACAGATTACT CCAGCTTAGT TCATAGCAGA  
GCTGGGACTT TTAATCAAG GCACTAGATG GTTCAGAGC TTGTACTAC TCTTCTGGG TCTTTCACAG TCTGAGCTGG  
TCCGG

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SEQ ID NO:801: (Length of Sequence = 408 Nucleotides)

CTGCGTTCCA TGTAGCGTCT TOCAGAGINC TCTGTTATAA GATGGTTTGT TACATTGCTG CAGATATTTC TGCATGTCTC  
TTGAGTTTCT CAAGACCAGG GTTGTATTTT TCCATGCTG TCGATGAAAC AGTACATGAC AAAAGAAGGT ACTTAATACA  
TGTTTGATAA ATTAATTACT GTTTGGTAAA TTAATTATTG AAGGAAGACC CAGACTGGTT CTGATAAATC ATTGATTACA  
TTTTACAAAT TTGGATAAAT TAGGGGAGCC TTGAGAAGTT AGAGCTCTAG GGAAGGTTCC AGGGAACGTT TGAAGGATGT  
GAAATATGGT TTTCAAAATT CATAGTTTAT TGCAGGATTC TGGNATACIT TCCCAAGTGA GGGGNAAGAT GAGGAAGANG  
ATGGGCTT

SEQ ID NO:802: (Length of Sequence = 343 Nucleotides)

ATGAGACTTA CTCACTATCA TAAGAATAGC TTGGGAAAGA CCCACCCCA TGATTCANCT GGGTCCCACC CACAACACAT  
CAGAATTATG GGAGCTACAA TTTAAGATGA GATTTGGCTG TGGACACAGC CAGACCATAT TAGACTCATA ATTTGNCCTC  
TGCACAGTAA GANCTGGGCT GGGATACCTC ATAGATCATA AACAAATCOG CACCCATGAA AAGATTAGA GAGTCACACA  
GGAAAGTCAA CAGAAGNCAG AGAGATGTGG GTCTGNCCT TGCATGTCAT TAAGTGGTGG GNTCCTTCAG CTTTCACATN  
TTCAGGCAGT GGGTCAAGA AAC

SEQ ID NO:803: (Length of Sequence = 182 Nucleotides)

GAATGGCCTT NCTAAGGC ATGTATGACT TGCATGNCCT CTCTAAGCT GAACTGGCCT CACCTCANC TGTCTTGCTG  
GCAAATGGG CTTTCAGTGG GAAAGTAAAT GGCAGCTGCT GTNATTACCT GGTCGNTGAA GAAAGACAGA TGGCAAAAT  
NATGCCTGTT GGGGATGACA GC

SEQ ID NO:804: (Length of Sequence = 312 Nucleotides)

TTTATTTACT GCGTTGTAA ATNATCACAA AACATAITCA TTGTCAAGTG AATGCACAGG CTTTCAAAGG TGATTGTATT  
CTGCAAGGTG GGGAAATAGCC AACTACCTTC TAAGGTGAAT GTNCAGCCTG CCATTTCCAA CCCCAAAAT CCTCTAGATT  
CTCAACAGGG CAGCTCTGCT TTTATGCCCT TTTTGGGAAA GGTGAGCCCT GTGTAGAAGG CTTAATACCA ACATGCAGAT  
CCACCTGAGA ATCACTGGAA TGCTCTGGAC CCAGCTGGAA TGCTTCGGAA ACCCAGTCAG GCTTNOGGAA AT

SEQ ID NO:805: (Length of Sequence = 411 Nucleotides)

CATGCAAAAT TCAGATATA AAAAANTGCA GGGCCTGGTT GCCCACATAC ATTCTCAGG TTAAGGTGGA TTTAAGATG  
CCCAACAGAA CCAATGAAT CAGAAGCTAA AAGGGACACT TCAGTGATCA GCAGACGCAT TCTCTCAGT AACAAATGGA  
GGGAAAGTGA GCACACATTA ACTAGCGAAG TCACAAGGCT AGATTAGGGG TGTACAGAAA TCTAATTCCT GGTGCTATTT  
GCAACTACAT ATATTTAAAA TACANGGAGA TAAATACCCA GAACACATTA AGCCTACTGA TTTAAACAGA NCATTTCAAG  
ACTGCTACAC AGAAAGGGAA GGGAGCTGT TAACCCAGCA CAGCAGCACA CCTCACATAT TTCCGTCTCA GAGGTAAAT  
GGGAAGGAAG G

SEQ ID NO:806: (Length of Sequence = 287 Nucleotides)

GCATTINAGT GCTGATACAG ATACAGTGAG TTCTGCGCT TTCTCTCCT NTATATTGAA GGGATTATAA ATGAAGCTCT  
TTAAACATTC TGAGATCINT AAGTTGATTT CTACATGAAC TCCAAGTGGT GTTAATGACA TTTTCAGAAA AGATGCTTTA  
CTTAGCTGAC AAGAAAAAGT ACTCTGTAAG CCTTTATTTG TATGTGATAA AACAGAGTTG ATAAAATAAT CTACTATTAA  
CTTATCAATG CAGTCTTACA GAATCCACCT ANTTACAAAG TAGATAA

SEQ ID NO:807: (Length of Sequence = 369 Nucleotides)

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GGCAGATATA ACCTTTCTCT AAACATCTCT AATGTCTGTC ATACCCCACT AATATTGGCT ACATAATACA TTTATTTTTG  
 TCTTTTGGGA CTAAGTGCCT TACTTAGTTT TGTNCAGTGT ATTCAITTAAT TGAAGAAATA CTTATTCAGG ATTTCTATTA  
 CTTAGTTTTG CTCAATATAT TCACTAATTG AAGAAATATT TATNCAGGAC TTCCATTATA TGAGCACTGG CCTTTGTGGT  
 ACAAAGATAC AACATGAATC TGAAACTCAA TTTAATCTAG AAAGATTAT TAATATAANC TCATCAGAAA AGCAAGNCAT  
 CTACTGTGAT AGCTACAGTA TTGGTTAGAA ATGGAAAGAG AGAGCAGAT

SEQ ID NO:808: (Length of Sequence = 361 Nucleotides)

CAGGCTTGT ACCAGCCGCC ATACTCTCCA AAAGATGTCC CATCCTTTIN CTTCCCTTG CATTCCTCTC TTTCTTCAGC  
 ATGCATCCAG ATGGGTTTAT TTTTCATCATC TACAGAACCA AACTCCCTTT CATGTGCAAG AGTGAGAATC TCTTTGTACA  
 GTGTTCTGTC TTGCTGAAC TTTCCCTGTT TCAAAATAGCA GGATGCCAGG TTATTTTNCG TCTTAGCCAC GTTGGGGTCA  
 TCAGGTCCCA GTTTTGTCTG GTAGATCTCG AGGGCTCTTT GATAATAATA TTCTACTTCT TCATACTTGC CCTGGGTTCT  
 GGCACAGTAA AGGCCAAGTT ATTAACTGC TTGGCAACAT C

SEQ ID NO:809: (Length of Sequence = 353 Nucleotides)

CTAATTTATC TTCAITGCCA GTGAGCAGTG TTGCGTTTTT CCTGTAGCA TTTGGAAATG ATTTACTGGA ATTACAAAAC  
 CTATTTTCCC TTTAAATTC AGCTTTGGCT CTGGCTGCTT TTTAGAATAA TGCAAGATAA AAATCACACC TGAGGGCTGA  
 AAACGAGAG GGAATGGGAG ACTTGATATT TAAGCAGCTT GAATGGTTTT CCNTTNCITT ATTTTAAAG AAATGCACCT  
 GCCTATGATA CTGTCTCTCC AGTGAAATGA TTACTCTCC ATTACTCTAT TGATACANTA TTGTGCATGC TAGTGTGTGA  
 TTTCTATACA GTAGCTTGAA AATTGATTAA CCT

SEQ ID NO:810: (Length of Sequence = 296 Nucleotides)

GAGGTCAATG CTTCCAGGC TCGAGTTGAT GCCACAGGT GTATTGTACG AGCATTGAAA GATCCAAATG CATTTCTTTT  
 TGACCACCTT CTTACTTTAA AACCAGTCAA GTTTTGGAA GCGAGCTTA TTCAATGATCT TTAAACCATT TTTGTGAGTN  
 CTAAATTGGC ATCATATGTC AAGTTTATC AGAATAATAA AGACTTCATT GATTCACITG GCCTGTTACA TGAACAGAAT  
 ATGNCAAAAA TGAGACTACT TACTTINATG GGGAAATGGCA GTAGAAAATA AGGAAA

SEQ ID NO:811: (Length of Sequence = 493 Nucleotides)

CCAGGAGCTT CTCCTCTCTT GCCAGGGCTA TGAGCAGAAA CCTCAAATAA ACCCTGGGCA GAGAAAACCA ACTTAATGAA  
 GAGGACGTTG CTGTTCCAC TGGCTTCTAA TTTTGCAGAT GCAATGAGCA CTTACGGCTT TTGCAGTGGT TCAGGAAAAG  
 GCAAGAAGAA GCAGATTGTC ATGTTCCAAA GCCCTCTGAT GGCTGCATGG AGCCAGCGGT GCTGTGACTT TTTTAAATAG  
 CTTCAATACC TTINATACGT ATGTCTTAT TTACTCTTTA TCTATGCTCT CTTCCTCCCA TCAGCCTGGG AGCTCCCTGG  
 GGCAGGTCTG TTTCTCCCT CCAGTCCGGA NITGSCAGGA GCTGTGCCCT CCCCATCACA CTGGGAGGCT GTCTNAAGGC  
 AGGGGCTGTG GTCTCTGCCA TTAGACTINGA AGCTCCCCAA GGTTAAAGGT CATATCCTCA AAAAAGCTTA GAATAGCTTA  
 GGAACCTAGG GGT

SEQ ID NO:812: (Length of Sequence = 337 Nucleotides)

AAATTCACAT ACTTGTAAAT NATGCAAGCA AATCTCACA TAATTATTTT TAAATGCTAG ATAGTTGGTA TAATINCAAT  
 CATTTTAAAT ATGTTAAGAC TTGTTTGTGA CCTAACATG AGGTCTAINC TGAAGAATGT NCCATGTGCA CTTGAGAAGA  
 ATGACTGGAG TGTNCTTAT ATGTATGTA GGTCCAATTA GCTTATAGAA TTGCNCTAGT CCTCTATTTT CTTATTCANC  
 TTTTGTPTGG TTGTTGINCT ATCCATTATT AAAAGTGGG TATTGAAGTC TCCTACTATT ATTGTGCTAT CATCCTCAGC  
 AAATAACAC AGGANCA

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SEQ ID NO:813: (Length of Sequence = 310 Nucleotides)

AGGTGGCCTC AGNNCAGCCA AGCTGACCTT GGCACCTGGC TGGCTTCINT AAGGCANTAG AGTGCCACACA CATAAGCNCA  
 CCACCTINTCC CCACCTCCTC CCTTCTCTCC CATGCCACCC CACTTGCTTC CAAGGGCTTG GTTTCCAAAG TNACATCCAG  
 GGTGTAAGAG GTTGGGGAAA ACGTCCTGCA AGNIGGCTCA GGGATCINAT TCCATCAGAT GGTCTCATGA ATACTGTGGG  
 AGATTAAATC CATCTCAAAA TAGGCAACCA ATGCTATATT CTGAATNINA GGTCTCTGGA CTGAGTCCCA

SEQ ID NO:814: (Length of Sequence = 361 Nucleotides)

GATTTGAGCC ATCAGAATTC AGCTTTTGTA GATAAAGAAT ATGAACCTAAT TGACTATGGA TGGAAATTATT GTATATAGTC  
 AGCTTGCTGA ATTATIGGIT AAGCACTACT AACIATATCT TGGTAACTA TGGTGCACT GAGCCACCCC CTAAAAGCAA  
 AAGACATTTA GCAGTTCACC ATATTTTGCA ATTAACCAAA TGAGAGCCTA TGAGANTGAA ATGNTTTCAG GTGGAGTTTG  
 ACAATACAAT TCATCCNTAA TATATAGGNN NAAATATTTC CTCAAAAATA ACATCTATGT GGTAGGNCCT TAAAAACGAT  
 GGATGNAATG CATGCAAAAT TCTCTGGTAC ACAGACACAT G

SEQ ID NO:815: (Length of Sequence = 301 Nucleotides)

GAATTINACT CTGTGTTCCC AGGCTGGAGT GCAATGGCAC GATCTTGGCT TACCGCAACC TCCGCCTGCT GGGTTCAGC  
 GATTCTCCTG CCCCAGCCTC CTGAGTAGCT GGGACTACAG GCATGCGCCA CCACGGCCAG CCAATTTTTC CATTTINAGT  
 ACAGACGGGG TTTCACCATG TTGGTCAGGC TGGCCTCGAA CTCCCGACCT CAGAGGATCC GCCCACCCTG GCCTNCCAAA  
 GTGCTGGGAC TACAGGTGTC AGCCACCACA ACCGNCNTAA TTAATACTTC TTGAAATTTT A

SEQ ID NO:816: (Length of Sequence = 310 Nucleotides)

ATCTTTAACA TATTAAAATA GACATGAGAA AAATGTGTCA TTTGATAAAA TGGGGGAAAT GTAATAAATG ATTACCAGAA  
 ATATAAAAT AAGCCGTATA TGCNCTTAA TAAATCGAAT CTAGGCATCC TTAAATGTA AAAAAGGNTG CAACAAGAGT  
 AAGNGCCCA GAATGATGTA AATTACAGGA ATGGGGTGTA ATGTAACCTC TAGAGGAGGT GATGTTTGA AGAAGCAAAG  
 NGAATGCAAT GANGAAGCAA ACTTGTTTTA GGCAATNCT CCTGGGAGTG GGACCAGGCA GCCCCTCTT

SEQ ID NO:817: (Length of Sequence = 225 Nucleotides)

TGGCATGCGC CTGTAGTCCC AGCTACTCAG GAGGCTGNGG CAGGAGAATN CCTTGAACCC AGGAGGCAGA GGTGCACTG  
 AGTCGAGATT GCACCACTGT ACTGGTCTCA GCCTAGGCAA CAGAGCGAGA TTCCATCTCA AAAAAAAAAA AAAGTTAAAA  
 NTAATATGCT AACTATGATA CAACTGATA GCAATATTGT CTTTAGATTG AAAATAAAAA TAGGG

SEQ ID NO:818: (Length of Sequence = 225 Nucleotides)

TTAAAAAAC CTGTAGTTTC ATTACCTTTT TGAATAATGN CATACAAAA ATGTATTTGN TTTTGTGTC TGTGAGAAAT  
 GATGTTTGTA GATTAATAAT CATTTGTGTT AGAATTACAA AATAGTTTTT AAATATTGTC TGAGAAAAGC CAAAGTTAAT  
 GCAACCNAGT GGAACTGTA AGACCNTTG AGTATTGTTT GTTTATTGG ATGCATTGG ATTTT

SEQ ID NO:819: (Length of Sequence = 280 Nucleotides)

TTGACTAGCT TCCTACGTCA TTAAAAATC TTAAATAGT CTGTCTTAAT GGCTGCAAAT TTTGTCTGTA GTCTGGGCTA  
 AAATCTGATG AAATGTTTTC CCTGTGGTTA AGTAATTTAG CAACTCGTAT CTTTTTAAAA TATTACAACT GGNATTTCTA  
 GTACGTCACA AACATTTGNN ATATCATTTA TTTTGTGCCA TTGTCTGTGC TATGAAATAC AGTAGAATGA AAATTTACTT  
 CAAAGCATTC ATINTCTTCC CCCAGGNAT GATGCCAAAA

SEQ ID NO:820: (Length of Sequence = 328 Nucleotides)

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CCAGTTAATT TTGTAAGTT TATAGNGATG GTTTCAGTTA GACCTGTGCT GTCAATACAC TAGCAATTCA CATGCACATT  
 TAANTTTAAA TCTAAGTTTA AATTTAAAIT AAGTTAATAT TAAATAAGAT TTGAAATGCA ATTCTCAGTC CTACAAGCCA  
 TGCTTCAAGT GCTTCATATC CATGTGAGGT TAGTGGCTGC TATACTGGNT AGTGCAAAA GAGAACATTA TTGTAATCAT  
 AGAAATTTCTA TTGGTAAGTT TATGGGGTAG TACATGGACT AGAATGTAGT GAGGTAGTGA GCTGTGGATG CAGAGAAAGG  
 NCACTGGA

SEQ ID NO:821: (Length of Sequence = 310 Nucleotides)

TCAGCATTGT TTTCTGTATG TMTGAGATG ATTATTTGGT TTTCTTTTT ATTGIGTTAA TTTGGTGAAT TGCATCANCT  
 TTAGTATCTT AAACCAACCT TGCTCTCTA GGGTAAACCT TATGTGGTCA TAATATATAA NCCITTTAAAT ACATTATTGG  
 ATINCTTTTT TTAATATATT GCTGAGGATT TTTTCATGACT ATAATCATAA GAGATATTGG CATATGATTT CCTATACTTG  
 TAATGNCITT GTTAGAAGGA GTTTATATTA GGNITTAINC TGGCCTCATA AAATGGGTTG AGAAATGTCC

SEQ ID NO:822: (Length of Sequence = 372 Nucleotides)

GCCAGATTGT NTTCCTTGG AGCCCCGAC CCGGCTACT CTCACCAGA CACGGCCCGG CTTTGGCCCA CAACACAGCC  
 GTCCACCCC TGGTTCCTTC ACCTTAGCAG TAGCAGTAGC TCTGGGTGA GTTGCCAGAG GAGCTGACAG GCCCTCTGCC  
 ACTGCTGCCA CCCCCAGGGC TAGGGAGGGA ACAAGAGGCC TGCTGTCTGT GCTTGACAT CCAGCATGCC ACAGCTGCAC  
 TACGGNGAGG AGGTCAGACA GTCCCCCAA CAAGNCCCG ATCCTCTINC TCTCCACCAG GGAGGGCCCT GGGCTTTGGC  
 CCCACAGNAC AAAACGTTC ANCCGGGCT GATCATTCTG GGTGGCAGC GG

SEQ ID NO:823: (Length of Sequence = 288 Nucleotides)

AGCTGGCATC CTTGGGAAA ACCAACAAC AGTCTCTCA CAGCCAAATT CACCACAGTA CTCCAATCCG NAACCAAGTG  
 CCGCATTAC AGCCCATCAT GAGCCCTGGG CTNCTTCTC CCCAGCTTAG TCCACAACIT GTAAGGCAAC AAATAGCCAT  
 GGCCCATCTG ATAAACCAAC AGATTGCCGT TAGCCGGCTC CTGGCTCACC AGNATCCTCA AGNCATCAAC CAGCAGTTCC  
 TGAACCATCC ACCCATCCC AGNGCAGTTA AGCCAGNGCC AACCAACT

SEQ ID NO:824: (Length of Sequence = 325 Nucleotides)

CTCTGAGGT CAAAGCTGCA CGTGGGAAG AGAAAGACAA GGAGACCAAG AATGCTGCCA ATGCTCTINC ATCCAAGTGG  
 GCCAAGACCG CCACTGCAGG ACCAGGAAT ACCAAGACGN CCAAGTCATC TGCTGTGCC CCAGGCCTCC CTGIGTATTT  
 GGACCTGTGC TACATTCTTA ACCACAGCAA TAGTAAGANT GTTGATGTGG AATTTTTCAA GAGAGTGCGG TCTTCTACT  
 ACGTGGTGAG TGGGAATNAC CTTGCTGCTG AGGAGCCAN CCGGCTGTC CTGGGACGCT TTNTTTGGAA AGGAAAAGGC  
 TCACT

SEQ ID NO:825: (Length of Sequence = 318 Nucleotides)

AATCAGCCCT ACAGCGATTC CTCACCCCC ATTAGCAAAT ACCGTAATAT ATGNCCTAG TAATCATCCT CTCACAATTC  
 TNCITTCCT AATTINCCG TGAGTCAAGT TTCTTGACCA CAATGTTATG CTGAGGAAGA TCTAATGTTT TCCATGGAGC  
 AGAAATGTGT AGTCTCAAC TCCAAGGTCT GCCTGTGCAA GCCCTGTTIN CGTGTCTTC ATAAACCTTG TCAGGCATTT  
 ATTTATTCAG CACATATCTA CTGINCTG CACAAGAATT CATAAGGTTT TGATGAATTA TGTCCTTCT GAGTGGGA

SEQ ID NO:826: (Length of Sequence = 287 Nucleotides)

TACAGACTCA GGTATAGGG TGINATTTTC TAAGTCAATA TTCAGTTTCA CAGCCAGAAT CTGTGAAGAG AGAACAAACC  
 ATGAGAAAAC TAACANTTTT ATGGTGATTG AGAGGTTCCA AGTNCCTGGN GTTTTAAAAA AATCAGTTTT TAAAGATAAA

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CTAAGCTAAAA CTAGTCCAAG CACTGAGACA GAGTATTAAA AGATGGTAGC ACACCCAAAG NGCAGGTGG GTCTTGAATA  
GCTAACATGT TTCAAGTAGT GGAGGNAGAT GTGCTTAAAT AGTTACC

SEQ ID NO:827: (Length of Sequence = 426 Nucleotides)

TTTTTTTGT TTTGGGACAG AGTCTCACTC TGTCACCCAC GCTGGAGTGC AGTGGGCTGA TCTCGGCTCA CTGCAAGCNC  
TGCCCTCCCGG GTTCATGCCA CTCTCCTGCC TCAGCCTCCA GAGTAGCTGG GACTACAGGG GCCCGCCACC ACGCCCGGCT  
AATTTTTTTG TATTTTTAGT AGCGACAGGG TTTCACCGTG TCAGCCAGGA TGGTCTOGAT CTCCTGACCT CATGATCCAC  
CTGCCTCGGC CTCCCAAAGT GTTGGACTAC AGGCATGAGC CACCGCGCCC GCGCGGATGG TTAAACATT TTAAAAATAA  
ATATTTAGTG CTAAGACAGG ATATGGAGCA ACAGGAATC CTATATGCTT GCTGGTGGGG AATGCAAAT GGGTACAACC  
ACTTTTGGGA CAAACAGTTT TAGTAA

SEQ ID NO:828: (Length of Sequence = 402 Nucleotides)

GGCTGCTTGC TCCACTCAA CAGGTATCTG GGAGCCAGCA CTCTGGCAGT CCTTCTAAGC TCTAACTCTG GTTTTACTGT  
TTTNNAGGTG AAACCTTTGT CTTGGGGAAT AGTCTGGCCC GCTCCTTGGA ACCACACTCA GACTCAATGG ACTCTGCCTC  
AAATCCCACC AACCTTGTCA GCACCTCCCA AAGGCACCGG CCTTGTCTTT CATCCTGTGG CCTCCACCA AGCACTGCCT  
CAGCTGTGGC CAGGCTATGC TCCAGGGGTA AGCTTACCAG AGTCTGGCC CTNCTCCCT CCTCACTCT TTCTTCACT  
TCCTTCCTGA GCTCTGGGAG GCCAGAGAGG ACCTAGCTCT GTTGCCCTCT GNCINGTGGT GGGGACTAGG GACTGGACTT  
AA

SEQ ID NO:829: (Length of Sequence = 417 Nucleotides)

ATCGGTTAGG AGTCGGCTTT ATGTGGGAAG AGAGAAAAA ACTTGGTGAA ATGCTTTCTG GACTAATTGA AGAAAAATGT  
AAACTACTTG AAAAATTTAG CCTTATTCCA AAAGAGTAGT AAGGCTATGA AGTACAGTCA TCCTTAGAGG ATGCCAGCTT  
TGAGAAGCG GCANAGAAGC ACGAAGTTG GAGGCAACCT GTGAAAGCT GAACAGGTCC AATTCTGAAC TTGACGATGA  
AATCCTCTGT CTAGAAATAG AGTTAAANGA AGAGAAATCT AAACACTCTC AACAAGATGA ACTGATGGCA GATATTTCAA  
AAAGGATACA ATCTCTAGAA GATGAGTCCA AANINCCCTC AAATCCACAA ATAAGCTTGA AGNCCAAAT CATCTINGCA  
AGGTTTCTTC CCAATGG

SEQ ID NO:830: (Length of Sequence = 404 Nucleotides)

GGTTTGAGAG TAGAACAGGA AGTTGTGAGT AGAGCCTTGA AGGAAAGAGA ACAGCAGGTG CATGNTCCC CAGGCAGGAC  
TCAAGGTAGC CACTCAGGCA TCAGAAAGAG TCAGGCGGCC ATGATGGCTC ACACCTGTAA TCCCAGCACT TTGGGAGTCT  
GAGTOGGGTG GNTCACTGA GGTCAAGAGT TCGAGACCAG CCTGACCAAC AGGGTGAAAT CCTTCTCTA CTAACTACA  
AAAATTAGCC AGGTGTGGTG GCACATGCCT GGGACAAATT TGGGATCAGT GTTCTCCAGT CTGAACATAG TCTTCTGTTA  
CCTGGGAGAG AGTGGTCAGG TACTTCCAGC TTCAGGGCAG CCAAAGCAT TGACAAAACG ACAGGTAGGA TGGGGGGAGT  
AAGT

SEQ ID NO:831: (Length of Sequence = 330 Nucleotides)

AATTTACAG GTTGIGTCTT CTGAAATCTG TACCTTCTTA CTCATAACAT TTAATGTAGC ATTTCTCAAC CTGACCAATC  
TGCAGAAAT ATATGTCATA TATTAATTGT GTATACATGA ATATATGCAT TTTCTGGTA AAAAGTCATA GTTTTNCATA  
GATGTCATGT AATCTTTTAA GAGATTCTCA AATAGGAACA TGATTCCACC CCAATAATGG TGAAAAATGA TCAATTTAGA  
TGAAAGGGAC CTCAACAAGC CTCTTGAGAT ATGAANCATA AAGAGNAAAT ATAAGCCGCA ACTTTTTGAC ATGACAGATT  
CATAATGGTT

244

SEQ ID NO:832: (Length of Sequence = 402 Nucleotides)

CTGTTTCTC CTTTGTGTTT CCTATTATN CTCCAGTGC TAACTTGATA TCINCTTGTG TGTACACGTG TGINTGTGTG  
 CAAATATATT TCTAGGAACA AGAGCAAACA TTCTAGTAAC TATCATTCTC TGATGTGGAG AACTTGGGCA GAGATCTGAG  
 TTACAGCTTT GTGGATTTAT TCTCTCTGAT GAGAGATCGC CCCTTAGAAT GTCATGGTCC TAACCCCGTC ATGGATACCA  
 GGGGTGAATG GCAGGGTTCT TCTCTGCCC AGGAGGAAGG GTATGGGGAG CCGGTGCATC TTGACTGTCA GGTCACTGT  
 CTTACCACCT TTACAGCTAG GCTTCTGAG GTGCCAGCGT CTCCTGGGAA TTCAAAGTGT AGTTTAGAGG CAAGCTGGGT  
 GA

SEQ ID NO:833: (Length of Sequence = 398 Nucleotides)

AGCCTTTTTC CAGAGATCAG ACCTCTTTAG ACATCTGAGA NTTACATACAG GAGAAAAACC TTATGANTGC AGTGAATGTG  
 GAAAAGGCTT CTCCAGAAC TCAGACCTCA GTATACATCA GAAAACTCAT ACCGGAGAGA AACACTATGA ATGCAATGAA  
 TGTGGGAAGG CTTTCACAAG AAAATCAGCA CTCAGGATGC ATCAGAGAAT CCACACGGGA GAGAAACCTT ATGTATGCNC  
 TGACTGTGGG AAGGCTTCA TCCAGAAATC ACATTTCAC ACACATCAGA GNNITCATAC TGGAGAAAAG CCGTATGANT  
 GCAGTGACTG TGGGGAAATC CTTTCACTAN GGNATCACA ANCTCCATG TGCATCAAAG GNTTACANC CCGGGAGG

SEQ ID NO:834: (Length of Sequence = 394 Nucleotides)

CTTTTTGTG AGTCTGTAAA ATCATTTCOA GTTAAATCT AGAGCTTAAT CCATATGNG TGCCATCTTT TGCTTTTCCA  
 CACCTCINAT CCTAGGTAAG TNAGAGCTAA .GAGTATTIN CTGAGCTTCT ATTATGGGCC CAGCATATGT NATAATTCTT  
 TTTACACATA GGAATCTGAG GCTTAGAGAA GTTTACTGAT TTACCTAATG GCACACCATA AGTCTGGGG CTAAGATTTA  
 AACTCAGGTC TCTGACTTA ATTCAGATGG TCAGCTCGAT GGTAATCATA ATAATATTGT NGTTGTGTGT GTTGTGTGTA  
 TNIATCAACA ATAGTAGTAG CTAAGTCCAT TTCATGAAAC AGCTCATTGG ATAGTCCCAT NTGGATAATT CTGA

SEQ ID NO:835: (Length of Sequence = 422 Nucleotides)

GCTTCTGCC TCTATAGATT TGACTATTCT GGACCTTTCA CATAAACGGA ATCATGTAAT ATATATAATA AGCAAAAGGT  
 AACAACAACC AAGCTGGCAA TTTGGTTGAT GAATGANIAA ACAAAATGTG CTGTATCCAT ACAGTGGAAA TATTGGTGCC  
 TACTACATGT GGATGGACCT TGGAAACATC ATGCTGAGTG AGAGAGAGCC TTGGTATGT TTCATCTCCC CAGGAGATTG  
 CAAGGTGCAG CCAAGGTGA GACCCACTGA CAAGCAATGG ATATGGTTGG GTGCAGATGA AATAAGSCAG CCAGGGGCAG  
 GAGGGATGTC TCATTGAAGA TGACTGTTT GTGGGATGCC TAGCAGGGGT GGGGGATGA GGTATTGATA ACCAGCAACC  
 CCAATCTTCA ACACAGCGTG GA

SEQ ID NO:836: (Length of Sequence = 408 Nucleotides)

CTCAAAAGAG TTGGCATCTC AGAAGGGAAG TGTAAGTAC ACAATTGTCA TTGATGATGA AGAGGACATG GAAACAAATC  
 AAGGGCAAGA GAAAAATTCC TCCAATTTTA TTGAACGAAG ACCTCTGAG ACTAAAAACA GAACCAATGA TGTGGATTTC  
 TCCACTTCCA GTTTTTCAG AAGTAAGGTA AATGCAGGAA TGGGTAATAG TGGTATCACC ACAGAACCAG ACTCTGAAAT  
 TCAGATTGCT AATGTTACAA CTTTAGAAAC AGGTGTAAGC TCTGTGAATG ATGGCCAAAT AGAAAATACT GACGGGCGAG  
 ATATGAACTT AATGATTACA CATGTAAACA TCACTGCAGA NTACCCACTT GGGAGGATG TCTCTAACCG GGACTGCAGT  
 CCAAGTAA

SEQ ID NO:837: (Length of Sequence = 347 Nucleotides)

TCGCTCTGTT GCCCAGGCTG GAGTGCAGTG GCACGATCTC AGCTCACTGC AACCTCTGCC TCCTGGGTTT TAGCGATTTG  
 CCTGCTCAN TCTCTCAAGT AGCTGGGATT ACAGGCATGC ACCACCACTC CTGGCTAATT TTTGTATTTT NAGTAGAGGC  
 GGGGTTTTGC CATCTTGCTT AAGCTGGTCT CGAACTCTG GCATCAAGTG ATCCATCCAC CTTGGTCTTC CAAAGTGCTG

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GGATTACAGA CGTGAGCTAC TTCACCTGGC CTGTGTGGCT CTTTTTCAAA AAAAGTTTAC TNGACTCTTG CTTTATTGCA  
AGTCCCAGAA TGGATTTGAT TTAGGGA

SEQ ID NO:838: (Length of Sequence = 275 Nucleotides)

AATTGCCAAG GAAAATTTTA TTTTAGCTTT GCATTACAT ATTCTAAATA ATCCTTTCAC TTAATGCAAT CAGATTCTTG  
TGACAAGCCA AATACTTGTT TTTTGTGTG TGTTGTGTTT CCCTTCACIT TTCATTGTAT GCCCTTCAGA AAAATCTGAG  
AAGTGGGCTT CCATTTTGA AAAACAGGAC TTCCTTAGTA CCATAGATAC GTAGATTGCA ATTTNCTTTT TCCTGCAGCA  
TTACTGACCT TGTGAAATGA TGCTATGGA TACGG

SEQ ID NO:839: (Length of Sequence = 387 Nucleotides)

TTTTGTGINTT GTGTGTAGAG ACTGGGTTTT NCCATGTC CAGGCTGGTC TTGAACCTCT CGGCTTAAGC NATCCTCCTG  
CCTTGACTTC ACAAAGTGCT TGANTTACAG GTGTGAGCTA CCACGCCCTGG CCATGTTTTT TTGTGTGAAG GATCTGTTTTA  
GTTTTATATC TTTCTGTGGC TCATATCTAA TTTAGTTGAC AGTACCTGTG GGTCACTAGG TAGACATTGC TAGCAGACGT  
TTAGAAATGA AATACTAGAG CTGGGAAAA AGTTGATATT TGAGATAGAG ACTTGAAGAA CATTAGCAGA GAGTTGGTAG  
TTAAGGTCTG TGAGCTGGTG AGCAATTCAA AATAAAGCA GAAGAGAAGA GGAAGACAAG GGTCAAC

SEQ ID NO:840: (Length of Sequence = 367 Nucleotides)

GTACTAAAGC CATGCAGGAA GGAGGAAATA ATCAGTGAGC CACGGGCTGA ACTGTGGAA AAGAAATGGA GGGCAAGGTC  
ACAAACCACT CCTAATGTC TTCTAATTTA ATGTAATCCT CACTGTTTTT CATTATTGCT TTINATGGCC ATGAAATCTG  
TTTTTCCCA GINCTCTAGT GTAATTGGA ATTAATTTCC CAGCTGCTTT ATTTTTTCC TAGAAGAGTC GGGGACATTT  
TCAGGATTAG TAGAGGTGTT TCTACAACAC CTTATGCTT TCGATAGTGT GTAAGAGTTC ACCAATTGAN TTACCTTATT  
CTGTTCAGAA GTAGTAACTA TGGAGTTTAA CCACTCTGGG ACATAAT

SEQ ID NO:841: (Length of Sequence = 346 Nucleotides)

TGGAAAGGAA AAGCAAAAGA TTGAAGAATA AAAACATTTT GTATTTGCCA AAACCTGTC TGTAGCAGTA AGTGTGAAAC  
AAGTTTGCTA CATTTTCCIT TTGGTTTITA CTGGTTGGG GCTTTTTTGT TTGGTTGGTT TTAAAGGATT TAGGGGATTG  
GCAAGTCAGT TTGTCAGATG TCAATGAACA GAAAACCTAA GAAAAAGGT AGCAAAAGTN CTGCTGCCCC CAGATGGATT  
TINCTTAAG TAATTTCTTA ATCATTAGIT ACAGCTCTGT GTCAAAAGAT GTACATAGAA ATTTATGCTA GATTCTTAAC  
ATCTTTCCTT ACTGTGTGCA GAAATG

SEQ ID NO:842: (Length of Sequence = 326 Nucleotides)

GTTCITTTGAA ACAAACGAGA ACAAAGACAC AACATACCAG ANTCTCTGG ACACATTCAA AGCAGTGTGT AGAGGGAAAT  
TTATAGCACT AAATGCCAC AAGAGAAAGC AGGAAAGATC TAAATTTGAC ACCCTAACAT CGCAATTAAA AGANCTAGAG  
ANGCAAGAGC AAAGACATTC AAAAGCTAGC AGAAGGCAAG AAATAACTAA GATCAGAGCA GAACTGAAGG AGATAGAGAC  
ACAAAAAACC CTTCAAAAAA TCANTGATTC CAGGAGCTGG TTTTGTAAAA GTTCAACAAA ACTGATAGNC CACTAGCAAG  
ACTAAT

SEQ ID NO:843: (Length of Sequence = 380 Nucleotides)

GGCCTTCAAA TTACAAAAG CAATTTACAT TATAGTAATA GTTCATGTTT ATAGTACAGG AACAAGAATG AGTTAACTA  
AATATTCCAA ATCAGTACAA GTNATINCT TTTTTTTTTT TTGAGACAGG GTCTCACTCT GTACCCAGG CTGTCTTGCT  
TTGTCATCCA GGCTGCAGTG CAGTGGAGTG GTCACACTC ACTGCACTT CAGCCTCCTG GGCTCAAGCA AGCCTCCCAC

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CTCAGTAGCC TCCACTCCT GATTAGCTGG GACTACAGTG AATGTGTGGC CATGCCAGC CTAGTGGTAT TTTTAACAGA  
TAANTAAGAA TGGAGGTAGT GGCAGAGGTG GAGTGAGAG AGAGACANGT AAAATATAGG

SEQ ID NO:844: (Length of Sequence = 257 Nucleotides)

TTTCCCTCTC GTTCCCAGG CTGGAGTGCA ATGGCGTAT CITAGCTCAC CACAACCTCT GCCTCCCAGG TTCAAGCAAT  
TCTCTGCTC CANCTCCCG AGTAGCTGGG ATTACAGGCA TGTCACCA CGCTGGCTA ATTTTNTATT TAAGTAGAGA  
TGGGGTTTCT CCATGTGGT CAGTCTGGT TCAAACCTCT GACCTCAGGT GATCTGGCCA CCTCGGCTC CCAAAGTGCT  
GGGATTACAG GTGTGAG

SEQ ID NO:845: (Length of Sequence = 420 Nucleotides)

CTACACACAT CTTCATTAC CTGGCAGTAA GCTTGGAGAG TAAGTTTTC AGATGCAGAT CAGAAGAGAT TAGGAAGAGC  
TTTGACAGAT ACCGCAAGTA TTTGTATTTC ACTCTAAATT AAACAGAAAA CCCAGGAAGG GTTTTAGGCA GATAAATGGC  
ATTATTTAGT TCTGTATT AAGTCATCAT TTAGGTTACT GGGGGAGGCT GCCCTGAAGT GGATCAGAAG TAAAAGGCAG  
AGATACCAGC TAGGAAGCTG TTGCAGTGAG CCAGGTGAGA AGAGAGGGCC ACCTGGACCA GGTAGAAGCA GTACAGGTGA  
AAAAANTCAG ACACCTCCAA ATCTTCCTCA AGATTNATA CATTATTTGG CTGGGCACGG TGGGCTCACA CCGTAAATC  
CCAGCACTTT TGGGGAGGCC

SEQ ID NO:846: (Length of Sequence = 215 Nucleotides)

GNCTGGGTGA CAGAGTGACC CTGTCTCAA AAAACAGTGA TTGTTGTAA GGAAATTATT AAAACCTTGG TTCAATATCC  
AATATCTTAA CTTTAAATTT TCAATACTT CAAACTAGT AAGTATTACT ATGTCTAAAG CACAGTGAG TCCAACGGAN  
TATGTAGCC ACATATATAA TTTTAACTAG GCCAGTAGTC ACATTATAA GAAAA

SEQ ID NO:847: (Length of Sequence = 266 Nucleotides)

ACACGAAGAA TCTCTTCAT CGCCAAACAG CTTCAGAGA TAGATGCTTT GTTTCCAATC GAGCATGCTA TTCCAGTGTA  
CTGNACATAC TGTAACCTC GTGTAGGCA CCTTTATGAA GAGATNAGN CACTGGCATT TCAGTGGGAT TTAAAGCATT  
TTTAATAGCT TCATGTACAG CATGCTGCTT GGTGNACAAT CATTAAATCT NCGATATTTC TGTAGCTTGA NTGTAAACGN  
TTTAAGAAAG GTTCTCAAAT GGTITG

SEQ ID NO:848: (Length of Sequence = 275 Nucleotides)

CNCTCGGTC CCCTTTTAA AATTACTTTT CAGCCGGGCA TGGTGGCTCA NGCCTGTAA TTCCAGCACT TTGGGAGGCT  
GAGGTTGGAG GNTACCTGA GNCGGGAGA TTGAGATCAG CCGACCAAC ATGAAGAAAC CCCGTCTCTA CTAAAAATAC  
AAAAATTAGC CGGGCGTNGT GGCACATGNC TGTAAATCCAG CTACTCGGT GGTGAAACA GAAACCACCA ACGNCTGACC  
TCAGGGAGAT GTCTAAGAGC TTCTGGCATG CCTCA

SEQ ID NO:849: (Length of Sequence = 318 Nucleotides)

GGAATTTTNC TAGTGAGGAG TGGAGGAAGG GGGCCTGGTG GAGGAGTAGC AGCCITTINCA AAGGCCCTGA GGCAGGAATA  
CCTGGGAAGT GGGGGCGTGC TTGINTAAGA TGAGGCTAAA GAGGAAGGCG AGGCTTTACT TAGGAGGAAT GGAAGCCAC  
TGAGTGTAA AATTAAAGC AGTNGGGCT GGGCACAGTG GCCTACACCT ATAATCCAG TACTTTGGGA GGCAAGGTG  
GNTGNTCAC CTGAGGTCAA NGAGTTNAG ACCAGCCTNG CCAACATTG GGCTCTACTA AAAGTACAAA AATTAGCT

SEQ ID NO:850: (Length of Sequence = 320 Nucleotides)

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ATGTCTGCCA ACTCAGGAGC AGGGCAGGAA TCAAACCTTT TGGAGTTGCT ATCAAGTNCT TGATTTTNCA ATCCCAACCG  
 TCCGCAGAAC ACTAGATGTG TGNATGINTG CTGTGTGTGT CATTTGTAGT AAAGAGGGGG TTGAGAAGTG GAAGGCAGAG  
 NCAGGAGTNG GCATCTACCA NGGCATACAT NAAAGACCTT TACACCAACA CTGCCCTTCC CAGNAATGTG AGTGTAACTCT  
 GGTTTCTCTAA AACCTGGGGC TGCAGTCCAG ATAGTCATGG TTAGANCAGA TGGTTGAGGA AAGGTTCAAG GCAGTAGGAT

SEQ ID NO:851: (Length of Sequence = 170 Nucleotides)

CATCCAAGAT ACCAAGATAT ATGAGGGAAC ATTTNNTTTA ATAAAAACA CAAAACCACA AATCCAAGAG GCTCAGNTAA  
 CCCCAGTAA AATATATACT AAAATACAAG NAAAGGGGAA AAAATGCATG NACACACACA TATAGGCATA TCATATTCAA  
 ACAGTTGTTA

SEQ ID NO:852: (Length of Sequence = 256 Nucleotides)

CAAAGTACAC ANGTTGATTT ATTACATTTT GCAAGCCTC TGTTCTACAT TTCAAAAACG CCACCNCAAA GCTGTTGGCA  
 CATTTATGTA CAAAACAGAT TAATTGTAAT GCCTGCTACA AAGCACTCTG TGAAAATACA AACTCTAATA CCAGAAATAA  
 AAGCCAAAAG TGTCAACATC ATTACATAAG TNGAAAAGTC AGTTTNGAA ATTATCACA ACTGTTATGN CACGGAACGT  
 AAATACTATA ATATAG

SEQ ID NO:853: (Length of Sequence = 281 Nucleotides)

GTATGTTGTT TCTCTCTCT TGCTGCTTCT AGGATATTIN ATCCTTGACT TTAGGGAGTT TGATTATNAA ATGCCCTGAG  
 GIGATATTTT TNGGGTAA TCGGCTTGGN GTTCTCTAAC ATTCTTATAC TTAGATATTG ATATCTCCTT CTAGGTTTGG  
 GAAGATCTCC GTTGCTATTC TTTTGAATAA GCCTTCTACC CCATCTCTTT CTTTATCTCC TCTTTACAGC AAATAAAGTT  
 TTAGANTTGC CATTTINAGG CTATTTCTA GACCTGTAG G

SEQ ID NO:854: (Length of Sequence = 255 Nucleotides)

TCGTGCCAGG ATTATACCA GCTAAACCAN GTAATGGAGG TCTATGCCIG ATGAAGAACA CCTGTAAAAG CTGGAATATG  
 TGGCTGTCTT CTCAAATGGG CAGATACCAG CACAANGATA CAAGGATTGT AAAGACTCAG AATCATGTTA CTTCCAGAAG  
 AAATAANATA AGNTCCAACA ATGAACACAA NATAATANAA CTNAAGGANA TTTGGANAAC ANTGCATAAA CAAACAAGT  
 TTAATGAATG ATTAG

SEQ ID NO:855: (Length of Sequence = 333 Nucleotides)

ATAGCTGTGG TGGTAACCCA CCAGAGTGAG CATGCTTNC TCTNAGGATA GACGTTGGGT AGTGGGATTG GGGAGAGGCA  
 GGACAGAGGC TTCGTTGTG TCTCTCTAAT TCATTTGTTT TTAATAAGGA TTTGGGCTTA CAAGTTTCAA ATACTAAGAT  
 TTATATAAGT CACATGGATT TTAATAAATC ACTCTATTGT ATGTTTGAAA CATTCATATA TTATAATAAA AGGATTGGTA  
 TTATATATGT NCTTGAGTTG CTATAATGTT TTACGGTTTT CTTTGCTTC ACTTTTGAAT TNINCGAGGA TCTCTGGGG  
 GAAGNTTCAG TCG

SEQ ID NO:856: (Length of Sequence = 230 Nucleotides)

TTTANAGCAA AGTCTGTCTC TGTCAACCAG GCTGGAGTGC AGTGGCGCAA TCTCGACTCA CTGCAACCTC CACCTNCTGG  
 GTTCAAGCNA TTCTCTGCC TCANCCACCC AAGTAGCTGG GACTACAGGC ACGTGGCACC ATGCCTGACT AATTTTGTGT  
 ATTTTTTTTA GTAAAGACGG GGTTCACCG TGTTAGCCAG GATGGTCTCG ATCTCCTGAC CTCATGATCT

SEQ ID NO:857: (Length of Sequence = 334 Nucleotides)

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AAAAACAATT AGTAAAAATT ATGCATTAAAG GAATTATTTA CTAGACTTTC TGGAAGTAAA AAATAAGTCA GCTGGTTTTC  
CCTTTGANIT CCTATATATT AAGGCAGAAT TCTCTATACT GTCCACCAAA ATCATAGTTA CAACTGTTTA CTGAAATGA  
TTTATATACT GCATTGACCT GGCATGTTAA TATTINOCCTA TAAATATCAC CACTTATCCC CATGCCCTAA AGCAGTTTTT  
TTAAACCCAT TCTTCTTGG AGAATAATTA TAATACCTTA AATACAGAAC TTTGGGTTTC TGATCTTGCC ATAGCCATGT  
AGCACAGCCA CTGA

SEQ ID NO:858: (Length of Sequence = 301 Nucleotides)

GGAGAAACGC CTAATGTAGA TGATGGGTG ATGGGTGCAG CAAACCACCA TGGCACGTGT ATACCTATGT AACAAACCTG  
CACGCTCTGC ACATGTATCC CAGAACTTAA AGCATAATAA TAAAAAANTA AGAAAATGGA AATTGATTTT AAAAATTTT  
ACAATGTGCA TCAAAAGACA ACATTAAGAA AATTAACAGA NTGGAAGAAA ACATTTGCAA ATAATTTATC TGATGAGGGT  
TTAATATCCA GAAAATATAA AGANCTCCTA CANCTCAACA GCAANAAAAG ACAACCCNAC T

SEQ ID NO:859: (Length of Sequence = 332 Nucleotides)

TGTCCTCACC CATAGAGCTA TCAGAGGGTG CCTGCNATTG GCAGACCCCTT TACATTTCCC TTTAATAAAT CACTTCCCTG  
CCAAGATCTC TGTCAAGGTT TGAGAAGTCA GAGCATTAAG TTATTINCAA TAAATGGTAT GTACATGANC ATCAGCAAGC  
TCCAAGAAAT GACTCGAGGG CCTTTINACTA CTCAGAGAAT AAAGCAAAAA TGCCAGGTTT TCAGTGCTTG TCCTTTGTGC  
CAGGGATTTG GACGTGTTTT TGTGTAAGIN CCAGCGTTGA GCTATGTTCC AGAAGATGGA GCCTCCAGA AATTAATTGT  
AGTGCTTGAA GG

SEQ ID NO:860: (Length of Sequence = 233 Nucleotides)

AAACGNTATG TGATTTTAGC ATTACAACAG TAATTCAGAA ATATCTCANN TGTTACATTG ATGTCATCAN TATTACAAAA  
AAGGAAAAAA AAGTGACAGG CAACAGTGAA GAGCACCAGA GACCCAGCGC ACACCTAAAG TAGACCATGC TTCTTTCCCTT  
CCACTGCCAG GTTATCGTCC CGGGAAGCCC CCCACCCCT CGCTTCCTC CTCGCTTTC CCTAAAAAA NNG

SEQ ID NO:861: (Length of Sequence = 327 Nucleotides)

GGGCAGGTGT CAGCGCCCGT TTCACGCCA CGTCGCGGAC ATGGTGATTT CAGAAAGTAT GGATATACTC TTCAGAATAA  
GAGGAGGCCT TGATTTGGCT TTTCAGCTAG CTACTCCTAA TGAAATTTIN CTCAGAAGG CACTGAAACA TGINTTGAGT  
GACCTGTCAA CTAAGCTGTC TTCAAAGGCC CTGTGTTTCA GAATTINCCA CAGTTCAGTG TATATATGGC CTAGCAGTGA  
CATAAACACC ATTCTGGAG AACTGACTGA TGCTTCTGCT TGTAAGAACA TACTGCGCTT TATTCAATTT GAGCCAGAAG  
AAGATAT

SEQ ID NO:862: (Length of Sequence = 378 Nucleotides)

AATCAGGTCC ACATTGTTGT CCTGGATGCT GAGTTTGCTG AGGGTTTCCA AGACCAGTCT CTGCGGGGAA AGGACGGCAT  
TGGGGCCCAG GGTGAAAAAG GGTCTCTGGG CTTCANCTGA AGGGCAAACCT GCCCAGTGTA GGAGTCCGTC CAGGACAGGC  
AGGCAAAINC TCTCGGGGTA TGGAGATAGG TCCAACCTGCC CCGAGATGTT GCGGAGTGTA ACCAAGGTGT TTTCCCGGAG  
CATCTCCAAG CAGTCCACCC ACCACTCCAC TTTTTTGCGC CTCACCCCTT GGGTCTGTT CTINCTCCTT TTCATAAGTT  
AGTGGTGCTT GCTTTCGGT TCTGGGTGCT TTGTGGGTGC AGCAAGGATC AAGCTTTG

SEQ ID NO:863: (Length of Sequence = 374 Nucleotides)

TCAAATTAAT GGTTTTATTT CCATCTGTAA CACTAGCAGA GGAGTCCAAA GCAGACTGAT ATCCATGGAT ATAGTTTAAA  
TGTAACAAAG AAAGAGTTGA ACTATGTACA TTGAAAAAAG GAAAGACATT TTINCATACC AACCTTTCCC TAGTTCCGAG  
TTTCTGAATA GTAGAAACAA AACACATTTT TAAATCTTTC TATCAATTTA ATTTAGGACG AAGTAACACA ACTTTTATAA

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TTAACCACTG AAGINGTCIT TAAGGACAAA ACTTAAATTT TAAATGGGT GTTACCATAT TTATGAGTG GACTGACTCC  
AAGGTTGCCT TGCTCCAAGN NTGGGCATCG TGACATTGCC GTGATGCCA GAGG

SEQ ID NO:864: (Length of Sequence = 223 Nucleotides)

AAGGGGATAG AGCAGACACT CCGCAGGTNT CTTGAGATTA TCATCCGCTG AGGGTAGAGC TGAGGGTGGA AGGGGAGTNA  
GCAGACACTC GGAAGGTGTC TINAGGCTCA GGGAGTTATC AATTATAGAA TGTTGTTGAG TTGGAGGAGG TGGCTGGTGG  
CCCATCCTGT TTTTAAAGT TTCANCTGTG AGGTAGGGCC AGTAGGGCAA TCCTGAAGAA TGG

SEQ ID NO:865: (Length of Sequence = 228 Nucleotides)

GAACCCGGGA GGCAGAGGTT GCAGTGAGCA GAGATCACAC CACTGCACTC CAGCCTGGGC AACANAGCAA GACTCCGTCT  
CANAATTTTN CCAAATCTG ACGGAAAGAA AAGAAACAAA TGGTTTCAAT GGGACGGAGG GTGGGGGAGG GGGGGAGGGT  
GAGTAGGAAC CAGGAGGGCT GCCTGGGGTG GGGGAATAAN TTAATAAAG GAACGAGTTA ACAACAGC

SEQ ID NO:866: (Length of Sequence = 328 Nucleotides)

GCACCACGTC AGAGAGGCCC CAGGCCACTG AGCCCGGAG GAGACCCAGC CGGCCAGCCA GATGTGTGCC TGANTGCCAC  
AGACTTCAAG CAGTTTACAA ACGAACTCA CTGTTAAAG CTGTTAAATC TCATTAAAC AGTAGACGAG TGCTTTAGAT  
TCTCTGAATA TCAAATAATA TATACAGATA GACACTGAGA CATGACAGTC TAATCTAAG CATCTTTACA GATGCATTIN  
CITGAAAAGT TAGTCTTCTT TTTAACTCIG AATCAGTGAT AAAATGTGTA ATTTGCAAAA GAGTACAGTT TTAAGCAAGA  
NTAGAGTG

SEQ ID NO:867: (Length of Sequence = 361 Nucleotides)

GTTCATGGC ATGTAATAAT TATGTGAAT TCAAATTTA GTGTCCCAG TTCTACTGGA ACGCAGCCCC TATGTGGTTC  
ATGINTTGCC TCCAGCTCCT TTCACACTGC AGCAAAGCAG GGAGTGTAAC GTACACCCCA CGGCCACGGG GCCTAAATA  
TTCTCTATCA GACCCCTAGA GAAAAATATG CCGACCTGG ATGTGACTGA GGGTGGGAC TTGGGTGAAT GCCCGCCAGG  
AGTGACATCA AGGGTTTGAA GCAGACCTC TGTCAGGAG GGAGCGGAGG CAGAGCAGGG ACAGTAGTNA GGAGGCCATC  
TGTTGGTACT TAGGCAAGGT GAGGAGGATG TAGGAGGCAA G

SEQ ID NO:868: (Length of Sequence = 364 Nucleotides)

AAAGCAGCCT TCAGGCTACT CTCCTGTGN TCCTTGCTCT GGGGAAGAAC ACTCAAGCAG CTTTAGAAAA AGTCCACGTG  
GCAAGGAATT GTGGTCTTTT GCCAACAGCC ATGTGAGTNA TCCATCTTAA GAGTGGNTCC TCCAGCCCCA GTAAAGTGTT  
CAAATGACAG CAGCCCTGGC TAACATATTG ACTGCAACTT CATCAGGGAA CTTGAGCCAG AAAAATCAG CTAACCTGCT  
CCTAAACTTC TGACCCACAG AAATGGTGAG ATAATGAATG CTGTGTTTAA GCTGCTAAGN TCTGGAATAA TTTGTIATTC  
AGCAGTAGNA TAACTAATAC AANGCCACCC AAGNATCATT TCCC

SEQ ID NO:869: (Length of Sequence = 383 Nucleotides)

AGCGACAGAC AAGTGAGCAT CACTACCAGA GCTCTGCCTC CTGTGAGATC AGTAGCGACT TTAGATTGTC ATAGGACCAT  
GAACCTGTG CATGCGAGGG ATGTGGGTG CACACTCCTT ATGAGAATCT AATGCTGAT GATCTGAGGT GGAACAGTTT  
CATCTGAAG CCATCCCTGT GCCCTACCT GTGGAAAAAT TGTATTCCAT GAAACCAGTT TTTGGGGCCA AAAAGATTGA  
GGACCGCTGC TCTATAAGAA ACTATTACTG AAATAAGGTA TAAAGTCTTT ATCTTACTTA TAITTATATC CTCTATGGTG  
TCCACACACA AGGTGCTTTT TACACTTAAG TTGTAAACT AAAATATTNC TTAAACTTT AAT

SEQ ID NO:870: (Length of Sequence = 409 Nucleotides)

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CAGCTTTGCA AATCAAATAG AATTCATTTT GCCTCNCN ATCTTACAAC TATTCTCTGG AGTAGGCAGG CTGGTTGAAC  
TTCAAGAGAA GAGGCGTTCC TGAGAGCCTC CTGGTGAGC TTGCACACCT GGGGGCCAGA TGINCTTTGC CCTCCTTGCA  
AAGCCTCTCT AGTCTGGTGC CCAGAGAATA CAGCTTCAGC AGCAGCTCAC TTTGCTTTTN AGTTTAGATG AGAAAAACA  
GCAAAATAGT CCATCAAGGA CAAATTCCTG CCAATGGATT TNCITTTGCA AGGANGTTCA CCTTTGNNCC TCAAGCATCA  
TCTTTAAGTT GTGAATGCCT GATGGGAGGT CCAGGTTGNN CTGTGGGAGG AGCTNGGGGT GGNITCCAAA ACCACCTGGG  
GACCACTGG

SEQ ID NO:871: (Length of Sequence = 290 Nucleotides)

TCITTTGCATT GATAGATTAG TTATTTATGC CAGINGTCTC TGTCGGCTT GTTTTGGTTT TNATTGCATT TGTTCCTAG  
AGATTCGTTT TAGITTTNCA ATTTCTTTCT CTGTACACCT GCCCTCCCC CACCCACCA CTGGGTTACT ACCTCCTTTT  
TGGCACTACA TGATGCCTTA AGCCAGGNT TGCCTAAGCT TTCATAACAG ATCCAGCAC TGCTCATCCC CAGTGGTGA  
GGTNTAAAT GGGATAACCT GATAGTGTGG GAAGGCTGGC TGGGGTTGT

SEQ ID NO:872: (Length of Sequence = 313 Nucleotides)

AAAACAAAAC AAATTTAAAA GCACTCAAAA ATAACCTCAA AAAGAGACTA GTGAGTGTCC CTTAAGGAAA GCCCTACCTG  
CAGATTCCCA CAGAACTCGG CCCAGGCACT TAACCTCCAT CTCAGCTCTG GTACAGCTCA CTGCGTACAG TGTGTACCAA  
ACTCTTATGC CTGNGTCTG GATAAATTCT ATTTATCTCT GAACCTCAAT TTATTCAAAT CTAGTTATGA TATATCATAG  
TGCTTGTAAT TGTGTAAAA TATAGANGTA ACATACAGCA TGTGTCTACA CGNTAATAA ACTGGTGCTA ATT

SEQ ID NO:873: (Length of Sequence = 300 Nucleotides)

TAGTAAACAA GTATTACTTC AACTGATACA ATGGCTACAT GACATCAAAG TACTATAAAT NATCAAACT ATCGTACAGA  
AAAATTACAA ATTCGTTGCA AAATACATTA TACTGCTACC ATTAAGAAAA AAGTGCTTTT NGTTTTCCTT TCTTTCTTTT  
TTTTTTTTTT TTTTGCCAGA AAAGTATTCT TNCATATAG AAAATCCTAC ATGTTACCTT GCATGTTGGT AGGNTATATC  
ATAACGGAGT TTGTACTGAG TCCTTCTGAT TTGCTGGATG AAGGGCTGAA AAATATATTA

SEQ ID NO:874: (Length of Sequence = 364 Nucleotides)

GAGTCATTGA TGCTGAGAGA TTGTAAGAA TATACTGACA GCATCCTTGT AGCTGCATCA CAGTAAATCG GACTTCTGAA  
TCAAGCAGCC CAGCCTAGCA GCTGATAAGA GTGAATGTAG GTGAGAAGCA TTACCTTATT CCTGTAACAA GAGAACTGTT  
TTGTGATAAG TGAACTAGG AATGTAGAAG AAGAAATATC CTATGGCTAT TATAAAGAN GAAGGACTTG CCTGANTGAC  
TTGGTGGTGC ACCAGAAAAA AACTTTCAGA AGAATGCTTT CTGTTAAGCT GCTGCATTGT TCCTGGAGGA AATGTTATTT  
CTAATGCATG TTATTTCTTC AAAAGATAGG ATAACAAAGA ATTG

SEQ ID NO:875: (Length of Sequence = 341 Nucleotides)

ATCAGTCCAA TGCAGATTAG TATCACTTTG CTCATAAAAG AGAGTATAAA GGTCTTGAA GTTTTGAAG GGAGCGGCTN  
AGCTGACTGT TAAGGAAGCT ATCTTTTGTG TACAAGAAAT TTATACITTT CCCITCTAAA TTTACAAAC AGAATATTAT  
TAGAGACAAC AGAATACATT TACAAAAATG GCATCAGAAA TAATTGANTA CATTTGTGAC AATATCTNCT ATTAATGAAA  
TAAATGTATA TTTNATAIGA TATTTGGTCT TTATGGGAAA ANTAATATAA TTNCCAATAT TCTAAGGNTG ANCAAAGNG  
GTTTACAAAT AGCATGCAAG G

SEQ ID NO:876: (Length of Sequence = 327 Nucleotides)

GTTCANCTT GTGGGTCAAC TTCTAATATT TGATGGTGGC TACACTGTGA CAAGAAAGGT TTTTINAGCTT GTTGGGGTCA  
GTGGATGGGC ACAAGGGCAC CCAGTGGTGG TGCCCGNCC AGGGAGGAGA ATACATTGTA GAATATAAGG TTTGGAAGTC  
AAATTATAGT AGAATGTGTA TCTAAATAGT GACTGCTTTG CCATTTCAAT CAAACCTGAC AAGTCTATCT CTAAGAGCCG

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CCAGATTTC C ATGTGTGCAG TATTATAAGT TATCATGGAA CTATATGGTG GACGCAGACC TTGAGAACAA CCTAAATTAT  
GGGGAGA

SEQ ID NO:877: (Length of Sequence = 404 Nucleotides)

ATTTGGCTCC TGAATGTTGC AGAAACTGG TTTTGTACAC TGGGGAAGGA GAGAGTGAAG ACCCTCCAGT TGGTTCCCTCA  
GTCAGCTCCG TTCTTGGTGT CGCTTCTTGT CAATTTTTTT CCTCCCCGG CCCTTCCCTGT GAGGGTTAA AGGGCCATCT  
CCAAGCCAGG TGGAGCCCCA ATCCCATTTGA CCAAGAGGGC AAGGTATGGG GTCACCTTCT CATGGAAGCC CTCCTCTTAA  
AGGAGCCCCA AGGGGACACC TGCAGAGGGC GGGCTGTGAT CTGTGTGTGA ACTTCAACAA AATCTCAGGT TAGTATTTCT  
CCAATTTTCA TTGAACACG ATGTGGTATA CACTACAAA TGCAGATTCT GGTGCCCTC TCCAAGAGTC GGCCTCAGTT  
AAAA

SEQ ID NO:878: (Length of Sequence = 340 Nucleotides)

TGTACCGCTG TGCTGTGGC ACGAACACCT TCAGGGACTG GAGCTGCTTT TATCCTTGGA AGAGTATTCC CAGTTGAAGC  
TGAAAAGTAC AGCAGAGTGC AGCTTTGGTT CATATTCACT CATCTCAGGA GAACITCAGA AGAGCTTGAG TAGGCCAAAT  
NTTGAAGTTA AGTTTTCCAA TAATGTGACT TCTTAAAAGT TTTATTAAAG GGGAGGGGCA AATATTGGCA ATTAGTTGGC  
AGTGGCCTGT TACGGTTGGG ATTGGTGGGG TGGGTTTAGG TAATTGTTTA GTTTATGNTT NGCAGATAAA CTCATGCCAG  
AGAACTTTAA AGTCTTAGGA

SEQ ID NO:879: (Length of Sequence = 372 Nucleotides)

GAAAGATAA TGAAGGAATA ATGCAAAGCT GAAGGCTGTG CCAGATGTAA GAAGTGATTG TGAAGGATAA AAGAAAAGGG  
CTTTCCAAGC AGGGAAGAGG CATCAGAGAG AAAACCAATT GTTGAAGCCG TATTCTGTCA CAGGGACATT TGTCCTTTC  
CTTTAATGCC CAGTAAGGGT CTTCTCAGGT TCCATTAAAC ATGCAGAAAT ACAAGACCCC CCCAAAGTTA CCATGGTGCC  
AACCGACTCA AAACAATACA GACAAGAAGC TCAGCTCATC AGGAAGGCTG CAGCAGGCAT ATGGGAACCA TCTTGCTCCA  
CAAAGGACAG CTNAGATGGC AAAGATCCCT ACAAGGGTCC ATATCCACGG GG

SEQ ID NO:880: (Length of Sequence = 405 Nucleotides)

GAGCTAGGCA CCAGGCATTC TGTGAGGCC CAGGAGTTTA AGAAATGAAT TAAATATTCT CCCCTGCCCT CTTTGAAGTC  
ACTCTAACGA GGAGACTTAA GANTTATTTT GTAATCTCTA GTTATATTIN CTGAATTICA GAGCTTAAAT ATTATAC TTC  
AACATGAGTC ACACCTTTAT TTATATGTTG GTTTGTCTCA GCTGTGTGT GGGTTGGTGG AAGGAGACCA CACATACATA  
CACACAGAGT ACATACATGC TGTTGATGTT ACACACATAC TCACACCCCA CAAAGTGAAG CTCCATGCTC ATTTTGTTTA  
ACAAAGACTA GAGAGGCCCT GCAGACAACA GCTACCTGGA GCAGGAACAA GTGAAGCATG TTTCTGAACC ATTTCTCAAG  
TCACA

SEQ ID NO:881: (Length of Sequence = 336 Nucleotides)

GTCTTTNCAG TCAAAAGTCC TTGAAGCTGG GACCCTTTGA AAGTCTGTCA GTTACATGTT GTTGGTAGTG GCTTGTTTTG  
ACCGTTTCAA AAAAGGAAGA AAAAACCCT TAAATCATTT TTCTTTCTC TTTTCTACTG CAAAGGCCGA CGAGATTGAA  
ATGATCATGA CGACCTTGA AAGGGCAAAC CAGAGGGCAG AGGTGGCTCA GAGAGAGGCG GAGACCTTAA GGAACAGCT  
CTCATCGGCC AATCACTCCC TCCAGCTGGC CTCACAGATC CAGAAAGGCA CCAGACGTGG AGCAGGCCAT AGAGGTGCTG  
ACCGCTCCA GCCTAG

SEQ ID NO:882: (Length of Sequence = 369 Nucleotides)

252

TGCCATTAGC AACACTGTTC AGATGAGATA ATTAAGAAAA AAAGCCAATT GAATGATTGA GTGAATGANT GATTGAAAAAT  
 CTTTCCGAAG TTATAATAAT AATTGTGATT ATTGGGGTCA AAGCAAAACC ATTTTAGTCT AAAAGATTGT AACTATATACC  
 AACTTTTACC CAATTGGGAA TGAAAAATTA CATTTCACAA CCATGTAGAA ATTCTGANCT CTTTGAAATA TTCCCTTTTG  
 TGGGAAAGAA CCAGAAATTC TTTGTCATAT GTACCCATTT ATCTTATTIN AGTTACCCAA CCAAAAGATA AAATAATATT  
 CTCAAAGAGA TAATTGACTG GAGGAGTTTA AAGTGTTTAT AAATATTAG

SEQ ID NO:883: (Length of Sequence = 369 Nucleotides)

CTGCCATAAG AATATCAGCC TGGGGCAGT CCAGACGCG CCCTTTGTC TCCTTTCTGT TTGCCTAGTC TCAGCAGACT  
 GTGATCACAA GGCATTGTCT GTGGGATTTT NCCTTTCCCT TTCTTGATCT CTCTTGCGT TCTAGGTTGT TTGGTTGTTC  
 ATTGTATGG TGGCTTTTNA TTTTAACGCC CCTTGAGCCC CATGATGGCT GGTGTCACCC TGTTCCTTTA CACTGTTGGG  
 CCAGTGCTG CTTGTCTTC TTAGGCATC ATCAATTGCA AATATTTCTT TTTGCTCCCT TTATGAAGAT GTCTTATAC  
 CCTTGCTTTT CCATATTTT TMTGGGCCAA GCAATGCCAT CTNCTTTTA

SEQ ID NO:884: (Length of Sequence = 327 Nucleotides)

AGTTCATCTT TTTCCAGAG GGTCTGGTG CCTTTAAAG GGTGCAGGCC GAAGAAGATG GTGGCTTGGG GAAACTGGAG  
 CTGAACCTGG ATTACAGAA CTGAGGCACC GGGATGGGGA TGGGAATAGG GACTGGCACA GGCAAGGGGA CGATTACAGG  
 ATACGGCACC AAGAGGGTGG CTGGTGGGAC CAGGGGGGAC AAGGGGGAGC TAAAGGGCTG TGGGGGCACA GGGGCATAGC  
 CAGGAGGAGG CTGACAGGT GGGGGCCGA GAGTGCCCTG GGAGGGAAAC AAATTCCTGA GCACAGCTTC AAATGGCAAA  
 GTGGGCT

SEQ ID NO:885: (Length of Sequence = 380 Nucleotides)

CCAAAGCTT ATCCACCATG ATCAAGTGGG CTTCATCCCT GGGATGCAAG GCTGGTTCAA TATATGCAAA TCAATAAATG  
 TAATCCAGCA TATAACAGA ACCAAAGACA AAAACCACAT GATTATCTCA CTAGATGCAG AAAAGGCCCT TGACAAAATT  
 CAACAACCTT TCATGCTAAA AACTCTCAAT AAATTAGGTA TTGATGGGAT GTATCTCAA ATAATAAGAN CTATCTATGA  
 CAAACCACA GCCAATATCA TACTGAATGG GCAAAACTG GAAGCATTCC CTTTGAAAAC TGGCACAAGG ACAGGGATGC  
 CCTCTCTCAC CACTCTATT CAACATAGGT GTTTGGGAAG TTCTGGGCCA GGGGCAATTT

SEQ ID NO:886: (Length of Sequence = 400 Nucleotides)

GGGATGACTT TAAACGAGAG CTGGACAGTA TTAATCCAGA AGTCTTCCCT GGGTGAAAAG GAATGAGTGT TTCANACTTA  
 GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCCTCATTT CTCATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT  
 GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCAGTTA GCCTTGAGGA AACAAAAGCT GGAAGAAAAG CGGGCATTTG  
 ACTCTGCACT AGCAAAAGCA TTAGAATATC ACAGAAGTGA AATACAGGCT GAACAGGACA GAAAGATAGA AGAAGTCAGA  
 GATGCCATGG GAAAATGGAA ATGAGGAACC CAGCTTCGCC GACAGNAGGC TTGCCACAC TGATTCACTT TCGGAGATGT

SEQ ID NO:887: (Length of Sequence = 363 Nucleotides)

TAAAATAAAT GCTCTGGATG GGAGAAATGT GGAAGTACT TTGGAAGTGG ATAATAAGTA AAGGCTGAAA GAGTACTGAT  
 ATACATGCTA AATAAAACCA ATATTTCCCT GAATGANCTA TTCAAAGCAA TTCTGGTGGG TGTTAGACAG GACATAGAGA  
 CCTGGAGAAG AAGCTCCCAT TTTCATAAG AACACAAACA ATCATGTATA GAATGTTGGT AGAAATATGA ATGGTGAAGG  
 TCAATGTAAT GAAGTCTTAG ATGGGAATAA GANAGGTTAT TAGACAAGGG AGAAAAGGTA ATCCTTGTTA TAAAGTGGCA  
 AAGGAACCTG GCTGAATTG TATTCATGTA CTAGTGCTTT CCT

SEQ ID NO:888: (Length of Sequence = 318 Nucleotides)

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ATCTTGCATG ATTAACTACTA TTGGCCCTGIN CCCCTTATCC TCAGCTGGTT GTACAATTCT TGAATGCTTT CTCTTCCCC  
 TGAGGATGCT ATAGATATTG TCCTACTGIN ATCTGAAATN AGTCGTTTTG GAGAAGTTTC TCCATCCAGA TACCTATAGA  
 GTCIGCTTTT TTTTTTTTTT TTTTTTTTTT ATATGCAAAC NCTCGCTGTA TTAFTCAGGC TGATCTGAAT CTCTGNGCT  
 TTAGTGTGT GACAGCTTTG GCCTCTTAA ACTGCAGNT TACAGGCATG AGCCACAGTG CCTGGCCATC AAGTAGCA

SEQ ID NO:889: (Length of Sequence = 349 Nucleotides)

ACAGAAATCT ACGTAGACTT CTNCCAAATG CCACATGAGA GCAGTGGCAG AATACAGAGA GACCGGCGAC CACAGCAAGG  
 AACTGTAAAG GCCAACAGTC CTCAGGCATG CAGGCTGGG CCAACAGCAC AACGCAGAGT CGCTTCTTCT CAGTCCAGCA  
 ATTAAATGA CCATGGCAGC CAGGGTTTCA TTAGGTTACT TTCAAAAACC ACCTTTGCTG GAAAAAATGT TTGGTAGTTT  
 AATCTGCATA TACGGACAGT CATGCACCAC ATAATGATGT TTAGGTCAAC GATGGACCAC ATATTCAATG GGTAGTCCCC  
 TAAGGTTTAT AACCAGCATA TTTTTTACT

SEQ ID NO:890: (Length of Sequence = 341 Nucleotides)

GINGTAGGGG TTCGTAGGTA GGGCTAGTAG GTAGGGTATG TAGGTAGGGC TAGTAGGTAG GGCTAGTAGG TAGGGTTGCT  
 AGGTAGGGTT CGTAGGTAGG GTTAGTAGGT AGGGTTCTGTA GGTAGGGTTA GTAGGTAGGG TTCTAGGTA GGGCTAGTAG  
 GTAGGGCTAG TAGGTAGGGC TAGTAGGTAG GGTTAGTAGT TAGNGCTAGT AGGTAGGGCT AGTAGGTAGG GCTAGTAGGT  
 AGGGTTCTGTA GGTAGNGTTC GTAGGTAGGG TTAGTAGGCG GTCTNTCTT CTTCACCCT GGNINCTGT AAAACNTTAT  
 TTACAAGCA ATAGGAATTT G

SEQ ID NO:891: (Length of Sequence = 344 Nucleotides)

GACCTGGCTG CGCACCAGGA CCGCNTGGAG CAGATCGCG CCATTGCCCA GGAGCTCAAC GAGCTGGATT ACTACGACTC  
 CCACAATGTC AACACCCGGT GCCAGAAGAT CTGTGACCAG TGGGACGCC TCGGCTCTCT GACACATAGT CGCAGGGAAG  
 CCTGSGAGAA AACAGAGAAG CAGCTGGAGG CCATOGACCA GCTGCACCTG GAATACGCCA AGCGCGCGGC CCCCTTCAAC  
 AACTGGATGG AGAGCGCCAT NGAGGACCTC CAGGACATGT TCATCGTCCA TACCATCGAG GAGATTGAGG GCCTGATTCT  
 CAGCCCATGA CCAGTCAAG TCCA

SEQ ID NO:892: (Length of Sequence = 367 Nucleotides)

CTGGGCAACA TGGTGAACCC CATCTCTGCT AAAATACAAA AATTAGCTGG GTGTGGTAGT GCCTGCCTGT AATCCAGCT  
 ACTCGGGAGG CTGAGGCAGG AGAATTGCTT GAACCTAGGA GGTAGGGTGG AGGTGCAAT GAGCCAAGAT AAAAAGAGTG  
 AGACTCCGTC AAAAAAAAAA AAAAAAATA TATATATATA TATATATATA TATATTNGN CTCCAATCCC ATCTAGGTTG  
 CTGCAATGC CATTATTTCA TTCTTCTTTA TGGCTGAGTA GTTTTCCACT GTGTATGTAT ACCACAGTTT ATCTTCTGT  
 TGATTGATGG GCGTTGGGC TGGTTCCACA TTGTGCCAG TTGCAA

SEQ ID NO:893: (Length of Sequence = 220 Nucleotides)

GCAAAATATT TATTCCAAGT TAGTATTTT ATGCAGTAGT TTCCCCCTCG AGACTGTGTA TAACCAATC TTTTAAATCT  
 GTAAATAATG TTATCAAAAT AATCTAATC TTTGAAATCT CACAAAAT TATATTTTAC AATCCACCT GAATATCAAG  
 GCTGCAAGAN TAACACAACA TTTCTATAT CCAATATTT TACAGCTGTA CCCAAAAGG

SEQ ID NO:894: (Length of Sequence = 313 Nucleotides)

GGGATTGGGA TTGTTTGGCT CTGAGGCTGT TAAGTCTGGA CTGATGCTGG AAATAATAT CAATGTTTAA CAGGGTTGAC  
 TGTCATTAAT GATGTCCTA GCTGTGGGTA CAGATGCTTT GCATTAAT ACCCTCAAT CTCACAATCT TCCATGGGG

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ATGTATTAGA ATCCCCTTTT ATAAAGGATA AAGGTGAGGG TCAGAGAGAC TAGGAAGCCT GTNCAGGGTG ACACAATACA  
AAGTGTGATA AATTGGGTTT GACTCAGCC ACTCTGCTTA TTAACATCAG CAGTATGGTT AATGGGGTGA CCG

SEQ ID NO:895: (Length of Sequence = 304 Nucleotides)

GGTCTAGATT CAGTTATGAA TGTAGGCATT AGTTAAAATT AACAGATGC AGAGTATTAA TTTCTTAAGA CAACA-AGTG  
ATTTCTGTAA GTTTGAGCCC TATGTGAAA GCATTGTGGA ATCTTAACCT TTTGTACAC ACTCTGTGG GACGTATCAT  
ATAAATGTCA GCACTAAGTA ATGCTGTGTT TGTGGCTGAA TATTTTNCGT AGATGTTTTT GAAGTTGACA TGACTTACGT  
GCATTTAAAT ATATATTGCC ATCCCTTAGT TTGTAATTAA GGATTINGGA ATATGGGTTG TGGG

SEQ ID NO:896: (Length of Sequence = 337 Nucleotides)

GCAAAGTATT TCATCATATG CATGTACTGT ACCTTATTTA GCCAGCCCCA TTTTGTGTTG CTTGTGGAGA ATTACAATAG  
CTGTTTTGAC TGTGTATCA CATGCCAGGC ACTGTACTGT GTATTATCTC ATGTAATTCT CATAGTACT GCATGGTGA  
GGTATTTTNA TCCCCAGTTT ACAGGTAGAG AAACGAACC CAGAGATGTT AAATAATTG CCCAAGTTTT TTGGCTGATT  
ATACTGATGA AGATACTGAT ACTAGCATTC TGTGTGAGT TATTTGCCAG ACAGAATTCT TTATTTTTTA ATACATAATA  
TCCATTTACT CTGAGG

SEQ ID NO:897: (Length of Sequence = 316 Nucleotides)

NATCACCTNA GGTGAGGAGT TCNAAACCAG CCTGGCCAAC ATGGCAAAC CCGTNTCTA CTAAAAATAC AAAANTNAGC  
CAGGTGTGTT GGTATGTGCC TGTAAATCCA GCTACTCAGG AGGCTGAGGC AGGAGANTCA CTTGAACAGG GAGGTGGAGG  
TCGCAGTGAG CCGAGGTTGC AGTGAGCGA GATTGCACCA CTGCACTCCA GCCTGGCGA CTNAGCGAGA CCCTGCCTCA  
AATAAAGAAA TAAATAANTA AAGTGGGGAA GTTAGTGGTT TCTGGTGTAT TCAGAGTTGT GTACCCATCA CCCTGG

SEQ ID NO:898: (Length of Sequence = 200 Nucleotides)

GAGATCTGGG GCTGGGGTAT GGATGATGGG GGAAGGGCG GTCGCTCTG CCACTGTCAG GGACCAGCCG GCCAACGCCC  
ACCCGNAAG GTGTCTAAAA ANITNAGCTT TTCACCCACC TGCCCTTTC TTTCATCCC ACGCTGTTTC CTTTCAAAGT  
TCTGGGAGGA CGAACTCACC GAGGCGAGAA GNTAACATT

SEQ ID NO:899: (Length of Sequence = 264 Nucleotides)

CTCTGTAAGT TAGCGTTCAT GTTTTCAGCC CCATGCAAAG GCGCAANACN TCAGACAGCG TGGTTCTNIN AACATNAGTG  
TGTGGTGCCT CCCAGGAGCA GGGATTINAG CNAGGCTGCT GACACATAAA CACACCCCA CCTCCAGAAG CAGAGGAGAG  
GAGCCAGGG CCAGGGCAGG TAGCTCAGCA AGGACCCAGC ATGCTNCAGG TGGGGCCAGT AAGAGTCACT TCTCCAGCNA  
GGGTCAGAGA GGAGAGAGGC AAGA

SEQ ID NO:900: (Length of Sequence = 265 Nucleotides)

GCAAATGGTA AAAAACCAAG TCAGCAGAAG AAATTAGAGG AGAGACCACT TAATAAATGT AGTGATCAAA TAAAGCTAAA  
AAATACCACT GACAAAAAGA ATAATGAAAA TCGAGAGTCT GAAAAGAAAG GACAGAGAAC AAGTACATTT CAAATAAATG  
GAAAAGATAA TAAACCCNAA ATATATTTGA NAGGTGAATG CTTGAAAGAA ATTTCTGAGA GTAGAGTAGT AAGTGGAAT  
GTTGAACCAA AGGTTAATAA TATAA

SEQ ID NO:901: (Length of Sequence = 381 Nucleotides)

CTTCTGTGCA TATAAAGAG AACAGTCTGG NCACTTGAAA ACAGACACCT TCTGGTTTTC AATGTGTTGG TCAAAGTGGC  
GATACAGCAA GGTTCGAGG GTGAACACAG TGTGCACAT GGAACACTTA TATAINATTT TNGGTTCTCC TATCTTGATG

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CCAGGATGCT GTGTGTAGGC GTGGGAATNT GTGCTTGGGG CAGACTTAAA CGCCATTGGA CAAATAGGAC ACTTGTAGAA  
 GACTTCACAG TGAGAACCTT GAATNTAAGA CTTACAGAGCA GCCACATCAG AGTACACAAC CATTGCAAAT GCACCACATC  
 GAAACCAAC TCTCCTCGTG TAGTNCAGAC AGTTCTTTGT GGGGTGGGGT CTNGGAAGGT G

SEQ ID NO:902: (Length of Sequence = 331 Nucleotides)

GGTGGCCAGT GATCTCCCTT CTATCACCT ATAGACAGCT TGCTACAGG AAAAAAGAAA GCCAAACACA GACAAGCAGT  
 ATGAGATACA ATGAGCGCCC TTGGGCCATT AAAATATGAT TGTNTGCCCA AGGTGCGCTG GNCITGCAAC AGCTCTCCAG  
 AACCTGCAGC CAGCACAGAC CAAAGTCAGG TTTGTNTCCT CTCTGTGTA TGAACAAAGG TTGATTCCAT ATCGTGGCTA  
 TTGTGAATAG TGGCAGTAAA CATGGCAGTA TTGTATGAAA ATATNACAGA TTAGNCCCTT TAAATATGTG CACTATGGNT  
 GATCTATCAA A

SEQ ID NO:903: (Length of Sequence = 389 Nucleotides)

AGCAATACTA AACATAAATG TAAATTGGGC TAAATGCTCC CAATTAAAAG ACACAGAGTG GCAAGCTAGA TAAGGAACCA  
 AGAGCCATTG GTATGCTGTC TTCAAGAGAC TCATCTCACA TGCAATGACA CACATAGACT CAAAATAATG AGATGGAGGA  
 ACATTTACCA AGCAAATAGA NAACAACAAA AAATATTTCT AATAGATTTC TGCTTTTAAT AATGAAATAT GTCAAACCTC  
 TATAAAAAT ATATGTAGGA AATATAAANG TTTATATATA ATTATGTAA TGGNTAATAG TAACTGAATA GCTAGTATTG  
 AATAACCAAG CTTCCTTTTG TTGTTTGTNA CATTGGNGNA ATTGAACATG CTAAAGGTA TTGGGAAGG

SEQ ID NO:904: (Length of Sequence = 285 Nucleotides)

AAATCAAGGA CCGTTTAGAT AGATGATGGG CTAGGCAGGT GGGGGAAGAC AGAGCTCACT GCCCTNTGGG GTCTCTGTGG  
 GGCCAGCCCC TNATGCCCAT GTGGCCACTN ATGCCAGCT TCCCCAACA CCCCANCACA GGCCAGGTG AATATTACAA  
 AAGTGAACAA ATGCAACCTG TTCTGCTTT NACAAATGAC ATGCTCCAT CCCCAGCCAG CAGGGGTAGG GGAGGNCGGT  
 TGAAAGTGNC ACTCCGTTA AAAAGGCAAC AACTTTTATA AAATG

SEQ ID NO:905: (Length of Sequence = 374 Nucleotides)

GAAGCAAAAA GTTGAACCTT TTAAGTGCT GAACACAAAT CCAATTGGA ATGGTTCAAG CAGCCGTGAA ATCGCTCTTC  
 ATAAAGTGGG CTTAATTCTC TAGTTTAAST TCTTTTGATG GAATGAATTA ATTAAATGTG CAGGTGGCTT ATTGTGGAT  
 GCCATGATTG ATGATGTTCA TTTTAAGCTC TTACCTATAG TACAAGTACA TGATGCTACT GAATATTTTT TCCACTTGGA  
 AACTGTGAGC TGGGTGTGTG CATTAAAACA CACATACANA CANAATCANN AAACACTGCG GACTTTTCAC TCAAGCTGGG  
 TCTTTCTTC CCCAGTGGTA AGGGCAAATC CTGGCTTANC TAACCAACAC CCAC

SEQ ID NO:906: (Length of Sequence = 375 Nucleotides)

CTGACTGAAA GGCTCTTTCC AGCTCCAACA CATGAAGGTT CCATAATTTT CCCCAAATGT CTGCGCTCT GAAAACTTCA  
 ACTATCTTAA TATTGTGAC ATTTATGCT GTGTATGGCA ATCTGATGGT AAAAGGAGCC ATATGTAAAT AATAACTGAA  
 ACTTTGTCAA AATAATGTA AGGAAACATA ATTAGCAAAG CAATATATAA TTNCAAGTCC ACTGATTTAG AGAATCAGAA  
 GTAACANTTA GAATCAGAAA TAACAACTAT CTGGCAGGGA TGGAAAAATG AGAGCAGATA TAAAAGGTGT ACCCCAACCC  
 CTGACCCAC TGCCATTG GGTGTGCACT ATGINTTCC AATATTAATA TCITT

SEQ ID NO:907: (Length of Sequence = 390 Nucleotides)

GTGCTGACTT CAGCAGCCCT CTGAAAGGCC CCTTCCATAA GCTGGGAAAG TATGATCATG GTTTCATCAT CCTGTGTGGT  
 TATTACTTCA AGGTGACCA ATCTGAAAGC TCTGTGTGAA GAAGGGGACT GAGTGGCTGT GAATGATGAG ACCGTTGTTT  
 AAAAGCCAGG CTTAGCCTGA GGTCCGGAAG AAGCAACCTC AATGCTGTGC TTTACCATAG CACCACCTGC AGGTATCCAG

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GAATAGAGAA CCCAGCTGAG CGACTCATGC TTNACCAAAA ATACCCAGAG CAGTGTGTCT CTACCTTTTT AAGCCCATGC  
TCACTAGTGG GGAACAAT TTTACCCCC TGTATTAA TATGGGGATT TCAAGGCAA CAAAAGCATT

SEQ ID NO:908: (Length of Sequence = 207 Nucleotides)

CTTGCAACA GGTGGTAAGT TATTACATTA TTCTNCTC CTGTCTACCT GCAGTTGGTT TTATGAGGGG CGTTAGTACA  
CTTCCCAAAG GCGTTGCCG CAGGTTNAGA GGTGCACATT GAACTCCCTC ACCAGGCAGA TGGGAAGTGT GGCCATGAGA  
GAGAGCTTCA GGGNCTING GNTTATNACA TCGCTGGGCC AGGANAT

SEQ ID NO:909: (Length of Sequence = 339 Nucleotides)

GCAAGAGAAC CTGATATAAT ATCTATAAAT TTGATTCCC TGGGGTATAA CAAGTAAATA ATTTTAAAT GGTGCTTAGC  
AAGATTGGTT CATGGNAAAT GAAGCAATTA TGGCTTGANT TTATATGTAC AATATTATT GTCTTAATTT TAATTTAAA  
CGAATGACAT GTCTCTTTTT TTAATAAAG TCCTCTTTA AAGATCTGT AGTTGATGTG ATGAGCTATG CACTGCTAAA  
TATTTATCCA CACATAAATA TTGANAAGG AATATGNNAT AGTCATGGGA TGTAGTTCA TCTCAGTGCT CCATGGAGGG  
AGTGTTTTCA CCTCTCTCT

SEQ ID NO:910: (Length of Sequence = 372 Nucleotides)

CTCAACTGCC ACTCACCTAT CTACCATCCA CTACCCANTN ACCACCCACC ATGACCCACC ATTTGCCATC TACCCATCCA  
TCCATTCTAT AAATAATTAG TAAGCACTTA ATGCATGCTA GGTATTATTT TAGGCACCAG TAAGACAATC ATGGGNAAAA  
AAGACAGACA ACCCCCGACC CTCCCATCTT CAGGGAGCTC TATTCCAGTG AGAACAATCA ATGTGCTAGA TTGTGAAGGT  
CATCAGTGCT TGCTGCCCCG GTAAGACTGA GGTTCACAG CCGAGGACC AGNCTGGGCC AGGGCTTCCC AGGGGTCINC  
TGGGGGA CTCTCAGGAG TCCAGTGCT GCGCTTAGC TNAGCACTG GG

SEQ ID NO:911: (Length of Sequence = 377 Nucleotides)

GAACTTCAA AAAAAA AAGAGGAGTC ATAATAAATA TTNACTGTC TAGTCAACC AATTATGAA GCCTGATTAT  
CTAGCTNAGC CTCCGAGAT TGCTACCGGA AATCTCCCA GATGTTCCC CTCTTAACC AACTNCCAC TGINTGSCAG  
GAAGGCAGCC GGGCATCTGC ATTCCGGAAG CCCAGCTGCT TGGGAAGAGA GAGGGAGCGG CCTGCACGTN ACTCAACAGC  
CCTGCTGCT AACCAGTTAA CCAGTTCTCA GTTGGGTCA CGACCCATG AGCGACCCAG CTTCTTCCC CTCAGGTTGA  
TATTGTGCTC CAAGCTNGG GATGCCCCG GGGACTATGT GGAGGGAGAG TTCCTTA

SEQ ID NO:912: (Length of Sequence = 370 Nucleotides)

ACAATCTACT TGCTACAGAA TCAGGATGTA TTINCCATTT TATAATAAAC TACAGAAGGT AGATTCAA GGTAAATGGCT  
GTTATGAAA CCTACTTGAG GTTGTCTGCT AAAACCAACT CAGTGTGCAA AGCGAAATAC ATTTNCTACT TCAATAGCTC  
CTCATACTGC ATCTGTCTGT AGAGTTTATT TCAGTAAAC TGTTTACTAT TTCATGATGA GTAGCTAGAA TTAAAGCATT  
AAGTAGCTTG AGAAATAAT CTATATAAAT CTTTATATCC TACATATGGC TATAAAATA AATTTATAAT TTTAAATTT  
GTTTTAAATA AACATTATT TTTTACCTA CCAAAGTAAA GGTATACAG

SEQ ID NO:913: (Length of Sequence = 313 Nucleotides)

GTATCTGGTT GCCACATCCA AGAAGAAGC GTGCTNCTG CTGCTCTTIN CTTCCTCTA TAAGGTGGTG CAGGTTTITT  
CCGAGTACTT CAAGGAGCTG GAGGAGGAGA GCATCCGGGA CAACTTNTT ATCATCTACG AGCTGCTGGA CGAGCTCATG  
GACTTCGGCT ACCCCAGAC CACCGACAGC AAGATCTGC AGGAGTACAT CACTCAGGAA GGCCACAAGC TGGAAACAGG  
GGCCCCGG CCACCAGCCA CCGINACCA CGCGGTGTC TGGNGTNGC AAGGCATCA GTATCGGAAG AAT

SEQ ID NO:914: (Length of Sequence = 389 Nucleotides)

TTACAGGCGC CTGCCACCAT GCCCGGCTAA TTTTNAGTAG AGATGAGGTT TCACCATGTT GGCCAGGCTG GTCTCAAAC  
CCTGACCTCT GGIGATCTGC CCACCTCAGC CTCCCAAAGT GTTGGGATTA CAGGCGTGAG CGACCGTGCC TGGCCTTCTC  
CACTGTTTTT ATAGTGAAGA AAGGACACCC AAATTTTGAT CTGGTTCAGC TATTCACAT TCTATCCTGT GTGGCTTTAA  
GCAAGTTACA TAACTTGCCCT ATATCTCAGT TTAATTAGCT ATAATATAAA TTAAATTGGT CAAATGTTCT CTAAAGTCTT  
ACTAGTTACC AGTGTTCCAT GGGCCCAACA GCATCTACAT TACCTGAGGA GGCTGGTAGG AAATGCAGG

SEQ ID NO:915: (Length of Sequence = 328 Nucleotides)

CNCCAGCAGA TTTTNATTAG ATGGAAGATA ACAAGCATT A CCNCTAGGT AAGTGGTAAG AAATGGCAAG TACAGCCAAG  
CCACAGAGGA GTGAGGACAT TACTGGCTAT GGAATGGGT ACTTATGAAA TCTAAGGGTT GGGTCTCCTG ATGAACCTCTA  
ACTACCCAGT AAGCTCTTCT CTTTGGCACT CAATATGACC NCTGCTGGCA TGAAAGGGNC TACAGTAGCT ACTTTCAACT  
TGGCCAACAG TTCTTCCAGT TCTGGTCGAG CTTTGAATCG TCCCTTTGAA GTCTTTCTTC AGNTGGTGCT CCTTCAACTT  
GACAAGTC

SEQ ID NO:916: (Length of Sequence = 365 Nucleotides)

CAACTTCAAG GTGCTGCAAG AGCTTTCAG AAGATGGGTG TTGACAAAAT CATTCCTGTA GAGAAATTAG TGAAAGGAAA  
ATTCCAAGAT AATTTTNAGT TTAATCAGTG GTTTAAGAAA TTTTGTGACG CAACTATGA TGGAAGGAT TACAACCTTC  
TNTGGCGCG GCAGGGCCAG GACGTAGCGC CACCTCTTAA CCCAGTTCCA CAGAGGACGT CCCCCACAG CCCAAAAAC  
ATGCAGACCT CTGGCCGGCT GAGCAATGTG GCCCCCCT GCATCTCCG GAAGANTCCT CCATCAGCCC GAAATGGCGG  
CCATGAGACT TGATGCCAA ATTCTTTGAA CTCAAACCA CAGCT

SEQ ID NO:917: (Length of Sequence = 400 Nucleotides)

GCATTATTTA TTGAAAAC TAATTTTTT TGTAAAAACC TGATCACATA GAGAATATCA GTGGCTATAC CCTCTCTGGG  
CATCAGTTTC CTCATCTGTA AAGTGGGGAT AATCAGAGC CCCACCACAG TGGGCTTCAG GGAGGAATAA ATGCATTAC  
ACATGGCAAG TCAATTAGGA CGGTGCCTGA CAGGCTGTCA GCGCCCAAGG TTGTGACTTT TGCTTTTCTT ATGTCTACTC  
TGCAACCAAC TTTAGATAGT GGTAGANTAA TCAGGAGGCC CTCTTGAATG GGATATTTTG CACAGAAGAG GTCCAGAGC  
GAGTGTGTGT GACATGGGAG CAGAAGACCC GGGGTTTNAG CCAGGCTCTG CCACTCATAC GGTGTACAAT TTTCAAAGGG

SEQ ID NO:918: (Length of Sequence = 348 Nucleotides)

CTATTGCACA TGGTAACTCT GTCATACATC TATAAAGCCT AGTAGCTGTA TTGGGTGAGA TGAAAAAAC TGCTTATATT  
CCACAGCAAC ATAATTACAA ATAAGTTTTA ACCTATTAAA GTACAGAGTC TCTCTCATCA CTTTCAAAGC AGGACCCCTAC  
TTACCAATAA TTCATAGCAT ACCTCCCCIT ATTTTAAAAC TCATATGATA GCTGATTTCC TAACTGTAGC AATCAGGATT  
CTTAGAAAGA TTCGAAACTG AATTTAGCTA ACTAAGGAAG CGGATTTTAT TAAAAATATT GGGTTAGTTT ACAGGAATCA  
GTAGTGGAGG AACCAGGGTT GCATAAAA

SEQ ID NO:919: (Length of Sequence = 345 Nucleotides)

GGGATGACTT TAAACGAGAG CTGGACAGTA TTAATCCAGA AGTCCTTCTT GGGTGAAAAG GAATGAGTGT TTCANACTTA  
GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCTCTATTG CTCAATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT  
GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCAGCTTA GCCTTGGAGA AACAAAAGCT GGAAGAAAAG CGGGCATTTG  
ACTCTGCAGT AGCAAAAGCA TTAGAATATC ACAGAAGTGA AATNCAGGCT TGAACAGGAC AGAAAAGATA GAAGGAAGTC  
AGAGGATNCC ATGGGAAAAT GAAAT

SEQ ID NO:920: (Length of Sequence = 299 Nucleotides)

CCCAGTACT CAGGGAAGGG GCAGGAGAAC CACTTGAGCC AAGGAGTTCA AGGCTGCAGT GAGCTGTGAT CACACCACTG  
CATTCAGCC AGGACAACAG AGTGACATCC TGTCTCAAAA ATAAATAANT TTTTAAATGA TGAAACTAAC TAAGGTACTG  
AGGAGGTAAG ATATTTCCTCC ACGGTAAGTC ATTCAGAAAC TAAATGTGAA AAACCAAAAG AAGCCTCTGG GGTTAGTATT  
CCCAGTCTCC TTGCTGCCCC AGGACCCAC ATTTGTGTAA GTTGCTAATT GCACAAGGG

SEQ ID NO:921: (Length of Sequence = 234 Nucleotides)

ATGAAGCAGA GGCAACCAAC AGAAATTGAC ATCAGAAACT CTGCTGGNTC CCCACCAGCA TGCTACCGAT GANTCCTGCT  
CTCTTCAGA TGAAATTTTA TTTTITINCC AATAAGGCCA GCCCTACCCT GGAATCTGGA ACCANTCTG GCCCAGGTA  
GAAAGGCTAC CAAGCACCTA TGGTAGAAGC CCTGGTGTCC AGGNATGCCT TGCNCCTTAT TATTGACCTT CTCT

SEQ ID NO:922: (Length of Sequence = 328 Nucleotides)

TAGCAGGGTT ACTGCGCTTG GCTGCGGCCA AGGGAAACT CTGCAGGCC TATTACTTGG CGGCCTTTAA CTCTTATAGA  
ATTGGGAGAG AACACTGACA AAAGCGAGGA CATGATTTIN CGGTACAAA TNAFTTCTCT TGCTTGCCTT CTCTCACCC  
TTTINAATTT TCCTTTCTIN CTITTCCTGT CTATCTTACC TTCCCTCCGT GATCCCTGCC AGCCCTCCTT TTCTTATTAT  
AGCTGATCAT GGCAGTATTG TTTTITINCTG GGTAAAAATC AGAGTGGGAT TTAGAGAAAG CTTAGCAGGC CTAGCATGAG  
GGCCTTAG

SEQ ID NO:923: (Length of Sequence = 371 Nucleotides)

CAGGAAACCT ACTGTGAAAA TGCAGAAAA CAACAGCAA AATTGATTGT TGACTCAATA TGATATATAG TTCAAATGTA  
AACAAATGCT TGINAGCAIT CCACATCACT GAAGGAAAAA AAGTAAGTTA TTAFTTCCAA TGTGTTGGAGT TAGGTTGCTA  
TAAGCTTATG ANCACACACT TTCAGTGAAT TTATGTAGAA TCGGAAGCAC TTCAITCTCC CCTCACCACA CATCACCCCC  
TTGCTCCTCC TCGACAGTG CAAAATGATA GGGCATGGTA GGGGTGTAG TGAATNGAG AAGGCATGCC CCATCTCAAG  
AAACAGGGTG GACCAGCCAC AGCTTTCAGC TCCANTTGT GATACAGGAA T

SEQ ID NO:924: (Length of Sequence = 371 Nucleotides)

ATGATCTGCT TTTTITGAT ACCTTTACTT TINAGT AGNGCGGGG TTTCTGGAGC CGACTGAGGG ACTGGAGAAG  
GCTACGGGGG TCCTCGCCCT GCCAGGGCAA TCCCTT CTCTTATCA TTGTTTATG CAAATCGCGG TAAAGTTTTT  
CCGAAGGGGG TGCTGGCTCC TCTTGGCAGC TCTTCTTGT GACTTTGGGC ACCAGGGCTG CTCATACCTG CAGCCTTTTC  
GGCCCTCTNG GCCCGCAGGC GTCCGGCCTC CCGAAGCACT GCCATGGCCC GGAATAGCAG CCCCGAGCA AGG

SEQ ID NO:925: (Length of Sequence = 317 Nucleotides)

AATGCTTTAT GATCAACTTG CCATAGGACT GATGGATTAA CCAGTGTTCG GCCTTATTIG AAGTCTATGC CCTGCACAGC  
TCTTGTATGT ATTTNAGATG CTAGAAGTTT TTINAGCATG TNATGTGIGA TTCTTGTITG AATTCAGGN ACCTGTCCA  
ACTTGGTTCT TTTTCAAGGT TGTTTTGGGT ATTCTGGGTC CCTTGTCTTT CCATATGNAT TTNAGGATCA GCTTGTCAAT  
ATCTGCAAAA AAAAAATCAG CTATATTTTG ATAGAGNTTT GTATTGCATC TTAGGANTG GTTTGTGAG TATTGCC

SEQ ID NO:926: (Length of Sequence = 247 Nucleotides)

GTTATTGATA CCACAGCATT TAAAAAGCAA TCCGCAAGTN ATAAAAAAA AAAAAAAA ATGATGTGAC ATATCCATTG  
CCTGANTGCT CTCTTTTGTA AGCCAGTNTT GGGATTATAG CAGAGGAGTA GCAGAAATAA NTATATTGAG ACACAAACAT  
ATAGATATAA TAATATCCAA CCNCITTATA TGATTAGGG TCTCGTTAAA ATGGTTACCA TTTGCTCTCT CTAAAAANTA  
TATAAAT

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SEQ ID NO:927: (Length of Sequence = 286 Nucleotides)

GGCTGTCATG AGAATCACTT GAACCGGGA GGCGGAGGTT GCAGTGAGCT GAGATCATGG CACTGCACCC TAGCCTAGGT  
GACACAGCAC AAAAAAANC AATGTTCCAC AAGTCAAAAA TTGINTCAG GGAGTAGAAA AGTAGTAGGC TAGGTATCAA  
AGGGTATGAA TGACTAAGTT CCTTCTATAA TATATTGACT ATAGGTTAGG AGATACACTT TCAGTTCCCTG TTTTNGTAG  
ATCTCCCAAT GATCTGTCAT TTAAGAGTAC ACACGATGAG TGGAAA

SEQ ID NO:928: (Length of Sequence = 349 Nucleotides)

CTTGTTTAAC CAGIATTTAT TGCACATGGT TTTGTTATCT ATTGCATGTG GTAAATTACC CCATACTTTG CTTCCTAAAG  
CATTAGACAT TTCCTAGGT TAAGAATTCA GAAGCAGCTT AGCTGAGCAG TTCTTGCTCA AGGCTGTCA TGAGGTTGCA  
GTCAAGGAGC TGGCCAGGC TGCAGTCATC TGAAGGCTG ATTGGGCTG GAAGACTCCC TTTCAGATG GCTCCCTCAC  
AGGCTTGGCA TGTCAAAGCT GGATTTGTTG CAGGGACCT CCATTCTTC CCACATGGG ATCTCCATAG GCTGTTTGAC  
ATGGCAGATN GCTTCTCCA GCAACTGGG

SEQ ID NO:929: (Length of Sequence = 395 Nucleotides)

AGAGGAGGCA GCAGCCACCC CCAAGAAGAC TGTACCTAAA AAGCAAGTTG TGGCCAAGGC CCCAGTGAAA GCAGCTACCA  
CCCCTACCG GAAGTGTCT AGCAGTGAGG ATTCTCCAG TGACGAGGAA GAGGAGCAA AAAAACCCT GAAAAATAA  
CCAGGTCCCT ACAGTTCAGT CCCCCGCT TCTGCTCCC CACCAAGAA GTCTCTGGGA ACCCAGCTC CCAAGAAGGC  
TGTGGAGAAG CAGCGCTN TGGAAAGCAG TTAAGACAGC AGTGATGAGT CTGATTCAAG TTCTGAAGAA GAGGAAGGAA  
ACCCCCAAT AAGGCGAGTA GTCTCTAAG CAACCACTAA ACCACCTCA GCAAAGAAAG CAGCAGAGAG CTCTT

SEQ ID NO:930: (Length of Sequence = 214 Nucleotides)

ATCCAACAAT GACAATCTCT CTTCGGACAA TATTGGCACT CCATTCAAAC CTGTGTTTCTG GTCAGTCCGC ACTTCATCAT  
CTCCCAATTT GTCCAAACA TACTGTAGCT CAAGTACAGT TTTTAAAGT TTCTGTCAG CTTCCTCTCT CATAAGCTGC  
TCCCGACGTG CTGTCTCTT NATTTGTTT TGAATATCTT GACTTAGTGC CATG

SEQ ID NO:931: (Length of Sequence = 245 Nucleotides)

GAAAGINTTC ACAACATGA TGCTTATCTA ATAAATATC ACTGAGCAAT AAGGAGAAAT ATTTTAAATA GATTTGAAGT  
TGTAACAAA TAATTTAGAG TCCAAAGAGG ANAAGANAA TTAAGTCTGT TTTTATCCC TAGAAGTCTG AAAGTTTACT  
GGATGCTCA ACAAGACAA ACTTTTATTT GTATAAACA GTAGANTCA TGAAGGGAT AATNCTTTTG GAACAGGCTT  
CTGG

SEQ ID NO:932: (Length of Sequence = 303 Nucleotides)

CATATTGGGG GCCCAATATA AAGCAAAGCT GGAAGAAGGG ATGATCCATG TATTINIGGG GATGGGATAT GGACAGGGAA  
ATAGTGTCC AACTCCATGC TGAGTGTGT TTTGAATTGT AATGTGAAGT TGCCACCATA CCAGGCTAT GACTGINTAC  
GATGCTCAC CCTGTAGGC TAGTAGCTTT GCAGTGGGAA AAGATGACAG GGCCACTGT CCAGGCAAT CAGGTAATAA  
AGTCCCTGAG CTCCAAGTTG CTAGATCTAA GGAAGTATTT TTCCCTTCAT GTCAAAGATG GGG

SEQ ID NO:933: (Length of Sequence = 186 Nucleotides)

CTCTTTTGGG CTGTTTCANA TCTCCGGCGA ATTGAAGCA GTGATCTCTC AGGTGCTAAC CGGNATAGTA TTAGAAGACT  
CCAATATCTT GCAGCCTGTG GGACTTACTG TATTTATCTT TGTTTGTCTT CATTTGCTTT TGGGTCTTG GTCATGAGGT  
TTTGCTAAG CCAAGTCTT CAAGGG

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SEQ ID NO:934: (Length of Sequence = 336 Nucleotides)

GGGAAACGT ATCAGCACAT GAAATACCTT GAACTATTT CATTATATA ATTTGCTACG TGTTCCTTGC AACATAGTGA  
AAAATAATCA TGTCTGATGT TTAGTAGGCA CATAATAAAT AGTAATGGAA TGAATGGTTG TATATTTAGA GAGCCATGCT  
GAAAGGTTAA ATAGCAAAT ATGACTACTT GGAGAATAAT GTTAAATGT CAAGGAGAGT AGTGTATAT GAATACTCAG  
ATGGATGGAT ATATAGANAA TGAGAAAAGC GACAGAAGGA ACTTAAAGAG NTTTTAAAA TAGCTTTGTC TAAAGATTAA  
AAATTAAAGG TTCTAA

SEQ ID NO:935: (Length of Sequence = 383 Nucleotides)

AGGTAAGAAA ACTGCTGAGT GGGCTCCTTG TACCAGCACC AACCAGCAGC CCTTGACAGC ATAGATGGGA TGAGTGTAAG  
GGCTATCCTT AGCATAAGG AAAGACGGTT ATAAGCTGAG AAGATTGAAA GAAGAATGGA GCCACAAAGA GAATAGCATA  
AATAACAAGA AGGAAACATG AAGAACAAGC ACTTAAGNTA TTAACITPCA GTCTTCTCC ATTTCTTGAT GTCTAATGAG  
GCAAATAAC TGGGCAAGGA CCACCAAGAT GAAGAAGTAA AATAAAATGT CACAATGAAA TINAGGTGCA ATAATACAAC  
TGTGACTGA CTTTCCAAA CCACGGTGAT CGGTAGAGTA TCATCAATGT TACCGAGGAT TTT

SEQ ID NO:936: (Length of Sequence = 204 Nucleotides)

GAAGCTGTGC CACCTTCIN AACTTTNATG AGCTGCCINA GCGCCAGCC ACCCTCTGTN ACCCAGAGGA AGTGAAGGG  
GAGCCCTGG ATGCCCCCA NACCCCACT CTGCCCTCAG CCCTTGAGGA GCTGGAGCAA GAGCAGGAGC CGGAGCCCCA  
CCTGCTAACC AATNGCGAGA CCACCCAGAA GGAGGGGACC CAGG

SEQ ID NO:937: (Length of Sequence = 386 Nucleotides)

CTAACTAAAT AAGGGTTGCC AGATAAGTA CAGAAGGCC AGTTAACTT GAAATGCATA TGANCAAGAA ATATATTINA  
GTATGANTAT GTCTCATGCA ATATTTGGGA CATAATTATG CTAAAGAAAG TATTCACAGT TTINCCAACA TTCAAATTGG  
AATGAGTGC CTGTATTTIN ATTTGCTAAA ATGGSCAACC CTAAGCTGGT ATCTCTACAG TTACATACAC TTACCAACCC  
CACCCATTCA TACTGGTCCA AGTTACACCC CAAAGAGGG CAGAAACAGA ATCTGAACAA GCTCAAGTTT NGAGGGCAAA  
AATGTTTCAT TCTGCCCTCT GGATTNCTGT ATGAAGACTT TTGTTGTGAA AGATATGAAT AGAACC

SEQ ID NO:938: (Length of Sequence = 349 Nucleotides)

GACACTTTCA GAATTAAGAA GCCTTGCCCT CTTGCGTGT CTTCACAATT GINTTAAGTC TATTATAGTA TTCATTTTAG  
TTTGAAAGCA ATAAATACAA TATTAGTACA AGCACACTGT CAAGAAATCC CTAGAATATG GCTCCTCTGA AGGTGACAT  
GGGTCTGCC CTGATGTATC TTTTCATCTC CAGCATCCAG ATCAGAGTCA ACAACAACAA CTCTACAAAT ATCAGGCTTC  
TTGGTGAAA GAAATCTGGA CATTTTINCT ATGAAAAAA AGTTAGGTTA CATGGCATT AATTTTTTGC TAGACTTAAC  
CTACAGAAA TGTTCAAGC TTATAAAA

SEQ ID NO:939: (Length of Sequence = 374 Nucleotides)

GAAATAAAGC CTCACAAGAA ATAAGGTGCT TATGGTGTTA AGTTACAATG GAAATAATC AATGGCATTT GTATGCATGC  
TGCATGTGTG ATGTAGATCA GTTCATAGGA GATGGGGCAA CAAATAAATA TCACCATGGG GATGTGATCA TCAAAACCCA  
GGCTGTGGAA AACTGTCAGT CAAGTTTCIT CAACATATTG CAAGAAAAAT ATGATGGCTT GAAAACTAT AGATGAAGCA  
ATTTAACAAA CCTACCAATC TCATTTAATC TTGATTACTT TTAATAAAG ATTAATAAGA TGACAGAGAA AGGGTTTAAA  
AATTTGTAAG ACACGGCTGG ACGCGTGGC TCACACCTGT AAATCCAGCA CTTT

SEQ ID NO:940: (Length of Sequence = 385 Nucleotides)

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GTAATCCAG CTACTTGGGA GGCTGAGGCA TGAGAATTTT TTGAACCCCG GAGGCGGAGG TTGCAGTGAG CAGAGATCAC  
 GCCACTGCAC TCCAGCCTGG GCAACAGAGC GAGACCCGTG NTCAAAAACA ACAAATAAA TTTCCTTTTA ACATCTGINC  
 CAAAATGAG ATAAGCGTGA TCAGGGCAAG TCCATCTCA TCACTCTTTC CCTCCCCACT GCCCTCTCCA CGATGCCAG  
 CTGATCAAAA GTCAITTTTA CTCATAAGAC CAAAGTATCA TGGGATACTG TGCAGTINGA GAGCAGGTG ANCATCAGAA  
 ATAATGCTG ACAATAAGT AAAAGATGGG AGAAAAGCAA GGCCNATTGT ATATAATACA GCTTC

SEQ ID NO:941: (Length of Sequence = 406 Nucleotides)

GGTAACAGGT TTTTACCAAC AATTGCTTGT AGCTAATGTA GAACATACTT GAGAAAATGG CTTCTGTGAA AGACCAGTTA  
 GTACCAAAAT AATCTGGCCC AGAAAAATAG CCACCATCTT TGACTACATT AATAGAAATA GAATAACCCC CAAAGGGAGA  
 TGAGAAGCAT TCTAAAGTGC ACTGATCATG AGTTTCTATG TGATGATTG TGTCATTTG GAGCTCCAGT GCTTTAAAGC  
 TGAAATGAAT CCTGGCCPTT CACCACCTC CTGCCCCATA GTATGGTATA TCCTCTTATT CCTTCCCTCT TAGCTTACTG  
 AGAGTGTAA TTTCAACCAG TTAAGGCCAA AGAGGACTAT TTTCTAGGAA AGGAGAGAGA GATGAATTAG CAGTTAATGG  
 AGGAGT

SEQ ID NO:942: (Length of Sequence = 296 Nucleotides)

GATGGCTCAT GCTAGTTCAG CAAATATGG GCCCTTCTG GAGAAGAGAG GCTGTATCTC CATGCCAGAG CAGAAGTCAG  
 CATCCGGTAT TGTAAGCTGC CCTTCAGCG AATGGCTCCT TGAAGCAAA CTGCCANTG GTTATCAAGC TCCTTACATA  
 CCCAGCACCG ACCCCAGGA CTGGCTTACC CAAAAGCAGA CCTGGNGAA CAGTCAGACT TCTCCAGAG CCTGCAATT  
 CTCAATAAT GTGGGGGAA ACCTAAAGG CTTAGAAAAC TTGGCTCTC AAGAGT

SEQ ID NO:943: (Length of Sequence = 223 Nucleotides)

GTGCCATTAC AACTTINCIG TAACCCIGAA ATTGTGTCAA AGTGAATAAT TTTTAAATGA GATTATAAGA GCATAATCAA  
 ATGGGAATTT CCTTAGGATA CCAGAGAATC ATTINCITCT CAGGTAAAG ANTTTTCTT TINGTAGTCC AGAGCTATAC  
 ATGATTAAGA AANTGTTTCA NCCAGGAAGA TGACATCTCT GCTAACCTAA TCGATTATCA TGG

SEQ ID NO:944: (Length of Sequence = 327 Nucleotides)

CCAGGCACTC AGGCTGGCTG TCCTTTNNT CCTCTGCCC ACCCATCCA CTCGAGCAT CAATGCAGCC GGCCAGTTGC  
 AGGCAACCAG GCAGCACCTT GGCTGCCAG GCAGGCTAAG AGGCCCCAC CCACTCCCC CTCTTTGCC AGTGGAAAAG  
 CTGCGGTAG GCATAGCTTT CCCAGCCTC CTGCTTCAN AGGCAGGAGC ATGGCACTCT GGGAGTTGTA GTGCTCATAA  
 CACTCAGGCG ATCCCTTGTG CAAATAACTG GAGGAGAGGA CTATGGTATT GGGGAAGAGA AATTNAGGAA TAAGCAAGGA  
 GTTGGCT

SEQ ID NO:945: (Length of Sequence = 222 Nucleotides)

CTTAACAAT AAATACACCT GAGTAGTTT TCCAAACCTT TCCTCTGAT TAAATGCCCT TAAACTTAA ATCTCTTGT  
 ATCTTCAGTT GTGATCTAGT CCAAGTGA AATTACGTTT AGCTTTAAA CCATGAATTT AAAGCTCAAG CCTGTAGCTG  
 GCTGCCTAGG CANTTTATGA TTAGTTTCAC AGAATAGCAC CCACTGGCTA CACAGNCCC AG

SEQ ID NO:946: (Length of Sequence = 286 Nucleotides)

GCCTCTCTA CCCCCTCATC TAGGTATGTA TATAGCTCAT TTATTTAGGG GTGATGTAA AAAATGAAT GCCCTTAATG  
 GCAAGGGAAC CAACCAATCA ATGTGGATGC CACAACCTTT TCCCTGTGT ACTGTTGTA TGGTATGGA AGTATTTTTT  
 TTTCTCCCA GCTTTTATTT CAGTTCAAG GGATACATAT GCAGTTTGT NACATGGGTA AATTGCATAT TGTAGGGGTT  
 TAGTATACAG GTTATTTTAT CACCAGGNA ATAAGCGTAG TACCTG

SEQ ID NO:947: (Length of Sequence = 335 Nucleotides)

GGAGGTGCAT TTNCTCCCC TTTGAAAGAT TTATGTAGAT TCCTAAAAGA AAATTCAGAA TATGGAGTAG CTCTGANTG  
GGGAGATGTT GTTAAGCAAT CTGGATTTCT TCCAGAAAAGC ATGTATGANC GTATTCTCAC TGGTCCCGTT GTGAGAGAGG  
AAGTAAGCAG GCGGGGGAGA CGGCCTAAAA GTGGAATTGC AAAGGNCACA GCAGCAGCAG CTCTGCAATC TGCCACCACT  
GTTTCAGGCA ATCCTTTTGT TTAAGCCAAT GGACCTACTT CCAGGNGTG GENTCTCACA AACTTNTTTC AGGGCCTTAC  
AACAAAAACC TACAA

SEQ ID NO:948: (Length of Sequence = 216 Nucleotides)

GGATGTAAGC TCCCAGACAG ACATCTCGGG AAGCTTCGGC ATCAACAGCA ACANTCAGTT GGCAGAGAAG GTCAGATTGC  
NCCTTCNATA TGAAGAGGCT AAGAGAAGGT TCGCCAACCT GAAGATCCAG CTGGCCAAGC TTGACAGTNA GGCCTGGCCT  
GGGGTGCTGG ACTCANAGAG GGACCGGNTG ATCCTTATCA ACGAGAAGGA GGAGCT

SEQ ID NO:949: (Length of Sequence = 369 Nucleotides)

CCCTTCTCA AAAGATAAAA ATCTCTGGCA GAAGAAATAG TTACCTGCTG CCATCCATCA GTACTGCAAT TACCATGACT  
CTAAGTGACC TTCTTGCCCA ATGTTTAAATG CACAATGGAC CGTGCCCGAGG GAGACCTGGG CATINTCTGT TGCTTTGTTC  
TACAAATGATC CCTTCTGTTT TAGCAGCGTG ANTCACTGAT GGTCACTACTC TCTGAGGACT GTACGCATTT TCACCCTATA  
TCCACCTGTA CCAGAAAACA TGGACATAAT TTAAAGTTTA TTCTACTTAA ATAGAGTGAT ATTCCAACCT GTGTGGGAAA  
ATAACCATFN GTCACTCTTT AAAGGAATGG TATTTAACAT TTATTTATA

SEQ ID NO:950: (Length of Sequence = 288 Nucleotides)

AATGGTGAAA TAGAAGTCCA ATTACCTGGG GAACTTCAT CTTAACCCCTC TGAATTTC AGTCTAACCT AAATATTGAT  
ACTACACCTG CAGCAGCATT TAGTTTAGCA TGTAGTGAAA AAGTAAGTCT AAAAAATATT TNCATAATCT TTGGTTCTTA  
AAATGTGTTT AAAAGAGATG CAGTGACATA TGCTGGAGT TTGCTTATGG CCAATAGGTT AATGCTTCTA GCCTCTATGC  
TTAATGCAAA TTTTAATTAT GTGAATATGC AATTTTCACT TATATTTG

SEQ ID NO:951: (Length of Sequence = 302 Nucleotides)

TGTACCGATG TTACAAGAAC GATTCCGGGA GTTNNCCGA NACACCGGA ACATTGGGCA GGAGCGCGTG GACACGGTCA  
ATCACTGGC AGATGAGCTC ATCAACTCTG GACATTGAGA TGCCGCCACC ATCGCTGAAT GGAAGGATGG CCTCAATGAA  
GCCTGGGCCG ACCTCTGGN GCTCAITGAC ACAAGAACAC AGATTCTTGC CGCTTCCTAT GAACTGCACA AGTTTACCA  
CGATGCCAAG GAGATCTTTG GCGGTATACA GGNCAACAC AAGAACTNC CTTGAGGAGC TT

SEQ ID NO:952: (Length of Sequence = 302 Nucleotides)

TTTTTTTNT CCACTTCACA GTTGATGCCA ACCCAGCCTG CATCACAGAG ACATTATAT CCACTGAGAC CTCCAGTACA  
GTTTCCATGG ATGCAGGGAT TGCNCAGGCA TTGTTTACC TGTTAGTAGC AGCTGGGGTG ATGGGGTCCC TCGGGGCATA  
TACAGCGGAA ACCATTGACA CCGTTGATAC ATGTNGCACC CTTGCGACAG GGATTGNGG CACACTCATC AATGTCAATG  
TTACATCTCT GGCTGTGAA ATCCTGGTGA GCAGACACAA CTGTAGCGAT TAATTGCCAT CC

SEQ ID NO:953: (Length of Sequence = 301 Nucleotides)

GAAAATNAAC TTGTGTTGAA AAGTTAGTAT GGGTTAGAAA TGGGAAGAAA ATCTAAAATG TAAGAGTAAA AGCAAGGCCT  
TCATGGCAIT CTCPTTAAAT ATGGGCTTIN CTGTGTTAGT TAACATCTGA TAATATGACC CCCCAATCTA TTAATATTTA  
TTATACTCAT AAAATTACAG AAAAAACCTA AGAAAGGGTA TGTATTGAAG TGAATGAAT AAATGCAAAA AATGTAGTAC

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TTATAACATT TTGAAGAAAA TCTTTAAAAA TMTTGTTTA CACAGAAAAT AATCTTAGAA A

SEQ ID NO:954: (Length of Sequence = 217 Nucleotides)

AGAGCTTAAA AATAGTGAAG TCTTTATAAG TAATTTTTAA AAATTTAAAC TAGGACCATA AATTTCTAAA CTATGAGATA  
AATGANCAAG AAAACAAACA GGTGTTTAGG AAAAGGTATG TATATGGTCA ATGAAATAAA TACAACTGTA TTTTAAATGA  
GANTTAACAT ATTTTNNNTT AACAAAAGCA GCATGTAACA CACAATGTAT TATATGT

SEQ ID NO:955: (Length of Sequence = 260 Nucleotides)

TATTTGATAG AATTTTCTAG TGAAACCATC CTGACTTGGG GTTTTATTTT GGAGGAATTT TAAGTTATTA ATTCCGTCTC  
CTTAATAGTG ATAGGACTAT TCAGATTACC TTATTTTATA TTTGGTGAGT TTTGGTAGCT TGTGTTTCTC AAGGAAGTGA  
TCCATTTTAT CTAAGTTGCC AAATTTATGT GGTATAATA ATTTGTAGTA TTCCNGTATT ATCCNITTGA TGTCTGTAGG  
GTCTCTAGTG ATATCCTATG

SEQ ID NO:956: (Length of Sequence = 216 Nucleotides)

CCCTATTAAA TCATTAGCA TTGCATGCAA TACTTTTINCT GTGAAAATTA TTAACCTTCT GGTATATAAA ATTATTTCTA  
GTATGTGTTA AATATTTCCN CTGGGATATT ATCATCTTAG ATCTGTAAAG TGGTACTAAA ATAGTTAAAA ATTATTTTNA  
AGATATACAC AAACAGAAAA ATATAAAANC AAATGTATCT TATACATAGT ACTTGG

SEQ ID NO:957: (Length of Sequence = 353 Nucleotides)

TATGTACCAG GTGTGGAGCC TAGAACAGAC ACCAGTCAGA AGTGCAGATA AGGTCTGACT TTCCAGCATA GCCAGGGGAC  
TTGGCTGACT CCACATGTCC CCAGGCCTTA CCTAGCTGTA AAGCAGGCAG GTTGTGAAGT CATAGTGGCA GTTTATGAAA  
TATTTAGGGG ACCTAATAAT CTTTAAATTG TATAACATTT CTGCATAAA TTTCCTTTCA TGAATCCTTT CATGACTTAG  
ACCATCTATG ACATGCTTGG ACTTTCTGAC TTGTCTAAC CACCCCTCTC TTAAACAAC CAGTCTTTTT ACTTTAGGAC  
AAGAATTTAC CATACAAGAT TCTTTTGTAT AAA

SEQ ID NO:958: (Length of Sequence = 410 Nucleotides)

AAGGAAATGA ATTTGATAGC AGATTGTTAG AGATTAAATTA CCTATCATAT GCCAAAGCCA CTTCCTACAT GTCAGTGCTA  
AGGAATCCCC TAGAGATGGA ATTCCTAGGT TCAACTGAAA APTAATTGTA ATTAATATAA TAGGTTAATT CATGTAAATT  
ATTTTTAAGC CTTTGGCAA TGAGTTAATT CCACAAGATC CACATTGCTT GAAGTGTAC AGAGAACACT TGATGAGAAT  
GTNCTAGTAA TAAACCTTAA CCTCTGGGG AAAAAATCCT ACTGTCTTTC CTCTGGCTT CGTTTCTTCT GGAACATATT  
TNGGTGGCAT TTGGATACTT GGAGGACAAA GGGATCCCTA CAAGGTGNT GCATAACAT GCGTGGGCC AGATGGACTG  
TGCTCAITGG

SEQ ID NO:959: (Length of Sequence = 197 Nucleotides)

GCCCGGCGAC CGTAGCATCT TCTGGACCAC AAAATAGAAC APTGCCAGGC AAGGCAGGC ATTTGGGGAA TTTNAGAGAA  
AGCAGGATGA GTGATGGAAT TGGGAGGGTG GCACAAGATG TTAAACAGCA TATCTTAGTC CTCATCTAGG GTATAAAACA  
GGACCCATGG ACTCTAGCAT CCTGGAATGA CAGAGGG

SEQ ID NO:960: (Length of Sequence = 345 Nucleotides)

AATAAACTTC TGTGTTTTA AGCCACCTAG TTGTGTCAC TTGTATGGC AGCCTTTGGA AACCAACACA CCCGCACATG  
GCGTGTTTAA CGCAGGCTGA TACAACCTTA AGAAAGGAAT GGNITGGTC ATCAGCAATC TCCAATACCT ACAGCAAATG

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GGAAGACAGG GAAGGACCAG AGGIGTAGGT AAAGCAAAAA GCCACAGGTC ATTAGGAAGT GATGCTCCAA CTGGGCATGG  
 AAAAGGAGTT TGGAGTTAGG AACACGACAG ATCTGTCTGG ACAAGGNTCC AGATCTCTCC TAGGGGGAAG NAGGGGCAAC  
 TTAGGACAGT TTTTGTGTCT GTGGG

SEQ ID NO:961: (Length of Sequence = 327 Nucleotides)

GCTGAAGAGG AACATGTGTC CTCGGCCACT TCAATCACTG AGTGTGACAA ACTTCTTCC TTGCCACAT CAGTGGGTGA  
 GGACCAATCT NTGGCCTCAC TTACAGCTCC CCAGACAGAG GAGACAGGCA AGAGCTCCCT GCTGCTTGAC ACAGTCACAA  
 GCATCCCTTC CTCCGTA CTGAGCTACG AGGGCTTGGA CTATGTGCCA TCAGCTGGTA CCATCTCACC CACCTCCTCA  
 CTGGAAGAAG ACAAGGGCTT CAAATCACCA CCTGTGAGG ACTTCTCTGT GACTTGGGAG TCAGAGAAGA GAGGAGAGAT  
 CATAGGG

SEQ ID NO:962: (Length of Sequence = 369 Nucleotides)

AATTTAGATT TGCAAGTTTT CTACATTTTC AAAAAACAAA AACAAAAAAA CAAAAACAA ACAACAAGAA ACGTAGACTA  
 GTTGGGCTCT GTCATGCCCA GGACATGAAT CAGCCCTCA TCCAGCTTCT CTGACCATTG GTCACTTAGT GGTCTTCTTG  
 GTTTTCAGAT AGCAAGAAGG GTGATTACAG CACGATATTT TGACAGAGAC CACATTCACA TAGCTTTTAT TAGTTATTGG  
 TTGCTGTAA TCTCTCACTG TNCCTTGITA AGCTTTATCA TGGTATCTAC GTAGAGGGAA AAAGCCACGG TATAGATATG  
 TAGGGTTCCA TACTATCCAG TCTCAGGGCA TCCACTGAGG GGTCTTCTG

SEQ ID NO:963: (Length of Sequence = 278 Nucleotides)

CTCAAACACC CGAGGCCGGG AGGAAAGAGA AGCCGATGCT TCAGAGCAGA CACTCCTTAG ATGGCTCCAA ACTTACAGAG  
 AAAGTGGAAA CTGCTCAGCC GCTGTGGATA ACGTTAGCAC TGCAAAAGCA AAAGGGGTTT CGGGAGCAGC AGGCGACGG  
 GGAGGAGAGA AAGCAAGCCA GAGAGGCCAA ACAGGCAGAA AAGCTCTCCA AAGAAAATTN GAGATCTCCG ACTCGGCTCC  
 CCCAGCGCCG CTGGTAAAAG AAGTCACCA GAGGTTTT

SEQ ID NO:964: (Length of Sequence = 349 Nucleotides)

ACACTCTCA TATAGACAGT CGTGAAGAAC AAGGCTGAGG GATTITINAAG TAAACCCATT TTCAGGATGA CTACAATCCT  
 TCCACTTCTA GAAACCTTAG AAGTACAAGA AATAGCTCTA CTACGGGTAA CTGATTTAAC AATTTCCTAA ACACCCCTTC  
 CACTACCCAA GCCCGTGGCC CTCAGAGAGA ACGGGATGG ATTGCCATCT GGGTTCAGAG GCAATATGAG GAGGTTGGGG  
 GGATGGCAGG GGCATCCTCA GGGTTGGGGG GCAGGCCAAG GGGATGAGAT GGCAAAGGAC AGCTTTNGGA ATCAGATAGA  
 CGATCCAGCG TGCCTTCTA CACTTGCAT

SEQ ID NO:965: (Length of Sequence = 361 Nucleotides)

AGCAGCAAGC CAGACGTGAC TGTCAGGAAC AAGCTAAAAT AGCTGTGGAA GCTCAGAATA AGTATGAGAG AGANTTGATG  
 CTGCATGCTG CTGATGTGA AGCTCTACAA GCTGCGAAGG AGCAGGTTTC AAAAATGGCA TCAGTCCGTC AGCATTTGGA  
 AGAAACAACA CAGAAAGCAG AATCACAGTT GTTGGAGTGT AAAGCATCTT GGGAGGAAAG AGAGAGAATG TTAAGGATG  
 AAGTTTCCAA ATGTGTATGT CGCTGTGAAG ATCTGGAGAA ACAAAACAGA TTAATTCTATG ATCAGATCGA AAAATTAAGT  
 GACAAGGTG TTGCCTCTGT GAAGGAAGGT GTACAAGGTC C

SEQ ID NO:966: (Length of Sequence = 163 Nucleotides)

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CTGCCCTTCTG GGTCAAGCG ATTCTNATGC TTCAGCCTCC CAAGTAGCTG GGATTACAGG CATGTGCCAC CATGCCCAGT  
 TAAITTTTGT ATTTTNAGTG GAGATGGGGT TTCGCCCTGT TGACCAGATT GGTCTTGAAC TCCTGGCCTC AAGTGATCCA  
 CCT

SEQ ID NO:967: (Length of Sequence = 365 Nucleotides)

GTGTCAGTAA TAAGTTGTAC ATATTATTNC ATCACCAGG TGTTAAGCCC AGTNCCTAAT AGTTACCTTT NCTGCTCCTC  
 TCCCTCCTCT CACCCCCCTG CTTCAGTCT ACCCCNGTGT TTTCTTCTTT GTGTTCTTAA GINCTTATCA TTTAGCTCCC  
 ACTGTAAAGT GAGAACATGC AGTATTGGT TTTCGTCTCC TTGTGTAGTT TACTAAGGAT AATAGCCTCC AGCTCCATCC  
 ATGTTCCAC AAAAGTCATG ATCTCATCT TTTTATGGC TGCATAGTAT TCTGTGGTGT ATATGTACCA CATTTTCTTT  
 ATCCAATCTG TCATTGATGG GGCATTTAGG GTTGATTCCC TGTC

SEQ ID NO:968: (Length of Sequence = 390 Nucleotides)

GTGTATAGTA ATTTAATAGT AATTAAATGT AGAGTATTTG TAAAAACAAG GAGAGGAAAA AGAACAATTC ATATTGAGA  
 ACTCCTAATA ATCTCTAGA GCAGAGTCA AAGAAGCAGT GGTAAAAATA AAGCCAAAGA GATATAGGGG CTAGTCTTAG  
 AACCAGGACT TCCTATAGAA CCAGCTTCT ATAGAATCTG AACTTTATCT GAAACTCTTT CACAGATCTC CTCCACCTTA  
 ACTTCCACAA AATAAGAAAT TTGGATTTG AAGGCAAATT TGTATATTTT AAGGAGCAGG ACAATCTCAG CTGTATCTGG  
 GTTTCAGAT ATCCAACAAA TCCTACCCAA ATCATTCTC CAGCTGCAGA CTTGGAATTT CAGATCCAGG

SEQ ID NO:969: (Length of Sequence = 340 Nucleotides)

CAGACAGAAA AAGATTGAA GAGACGGTC AGGAAGTAGC GGAATTACTG GAGGAAGAAA AACTAAGTTG TGTGCCAGT  
 CTCATCTTTG CTAATAAGCA GGATTGCTC ACAGCAGCCC CTGCCTCTGA AATTGCAGAA GGACTGAACC TGATACCAT  
 CCGGACCGA GTCTGGCAGA TCCAGTCTG CTCAGCTCTC ACAGGAGAGG GCGTTCAGGA TGGCATGAAC TGGGTCTGCA  
 AAAATGTCAA TGCAAGANG AAATAAATC TAGACGAATG GAGATGCAGG AGCTTCGGGA GCGGAATTG GGCCTTAAAA  
 ACACATAATT GCTGCTTTCT

SEQ ID NO:970: (Length of Sequence = 372 Nucleotides)

TTTTAAGATG GATCTCAGG GTTACCCAGG CTGGAGTGA GTAGTGGTC ATAGCTCACT GTGGCCTCAA ACTCCTGAAC  
 TCAAACTATC CTCTGCCCTC AGCTCCCAA ATAGCTGGGA CTGCAGGCAC ATGCCACCAT GCCTGGCTAA TTTTAAAT  
 ATTTGTAGA GATGGGTCT CACTTGTGT CACAGGCTGT TTGCTTGATT CTTAAGAAGC TATAGGGATC CAGCTGTACA  
 GAGCTTCTG CAGTCTTTG TAATAGAATT AGTTGTTAA ATTGTACTTA TTACATGAGG CATCAAAGAC CTTGGAATAA  
 AGCTATINCC TCACATATCT GGGCAATTAT TTTGGACTTA CTATGGTTAC CG

SEQ ID NO:971: (Length of Sequence = 337 Nucleotides)

GACTATAGAG AACGCTGAAG TTTTGAATAA AAGACTCTAG GTGAGCTTC ATCAGTGCCT GCTTTGGNTC CAAGATGTAA  
 TGAGATTCTN CTTTCACTC AACAAATGCC GCAAATNCTT TCACCTGAGT GGAGCTCGGA GCACCCAGTC TCTCTGCATA  
 TAACCAAAC AAATTTGAAT CCAAAAGGTA GATGTTGAGA GTCTTGTGG TTCTGCAGCT CAGGCCTGTG AAGTTTGTGC  
 TAGTCAATG CACTTCTGGA AAGAGGATAC CTGINCTCT CAATGTGAGG GAACGGGAGC TTNGGGGCAT CAACCTCACA  
 TTTTCTCTC AAGGGGA

SEQ ID NO:972: (Length of Sequence = 396 Nucleotides)

TTCTTTTACA TCAATATATC TCAATGGAAG AGGGATATT GCACACAAAT ATCATAAAG CACTACATAT TACTTTCAT  
 GGAACTAAT TTNTACATT AGATATGACT GGATAGGATA GAAGTGATGC AGGATTATAA GACATAATAC CATACACAGC

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TGCAGACTGA CACAAACACC ATTCAGAACA AGAGAGAGGA GTGTGAAGTG CTTCCTCAGCT GEGCTCAAGA CCACCTCTTT  
CCAGTGCTGG AAAGAGGGGC TGCATGCACT GTAGGAAAAG CGTGTCTCTG AACTGCCACA GGGTGTCTC GAAAGGGCAG  
CCCGGTCTTG ATGCCACTTC TCCATGGCTC CTGTTTTTGG GGGAGCTCCA AACAAAGTGA GAGAAGCTGC CTATTT

SEQ ID NO:973: (Length of Sequence = 401 Nucleotides)

TTCTCAAAC TCCAGTCTC TTCTGGGCC AAGATCTGGT CCACCACTGC CGTGGCCTCC TTCCCCTGGC GGATGTC TC  
CCGCTCCTGA GCAGAGAAAC TTTCTTCCC AGCAACTTCT TCATCTGATG GGAGGAGGA ACTGAATAGC TTCC  
GGGAGATAAG AAAGAAGAGT GTGGTGTGAA CAGGGAGCTT TGAGCTGTGG AGTTGGGCTG GGCATGGAAA ATNCGGTGGA  
GAGTAGCAAG GAATGAGGGG CTTCAGAGAA CTCINGGATC AGCCCTCCCA CACTCACTGC CCTTTAAGGT ATCTTTGGGG  
AAAA AGGG GCTTCTATGA TGAGTCTGGC AGCTNCCAC ACTGCATTCT CCTCTGCAT TTTTTTACCA TGCACCGGG  
C

SEQ ID NO:974: (Length of Sequence = 300 Nucleotides)

TTTACAAATG AACCACTGAG CACCTCAGTA CTTAGCTCAT ACCTCATACC TTAGTTCCTT AGTACTTAGC CTGTGCCAT  
CTTGAATGAG ATGGAGTGAA GTGAAGCTCG AAGGAGTGAC AGAGACATAG TCCTTGCTCT CAAGGGGTCT TTAGCCTGGT  
CTGGGGGACA AGATTTCTCT ATCTACCTCT TGAAAGGTGG CAGGACAACT CCACACTGGA GTGTTCTCAC CAGCAGATAG  
GTGCTGCGGG AGTGTGGCC CACATCTTT ATAGCCACAG GCITTCGTGG GACTNCCCT GGGTCTCTC CCTATTGGC  
TGGGTGGACC ATAAGCGCA AGTGAATGTG GCAAACCTCA ATTCACAATT AA

SEQ ID NO:975: (Length of Sequence = 340 Nucleotides)

GACAACAGAA AAAGAAGTGG ACAGCTACCC TAGATTCTAG CTCACACATA ATTCAGCCAG ATAATCATCA TTAAATAAT  
ACCCCTTGAA ATTTTTCAGA CTTTTCACAG CTCTAAAAAC ACAACATCAG ACATAACATC ACACATTGT TCCAAGGAC  
TAAAAATCAA AAGCAATTGC AAAGTATTGG GAATCACTTT TATGGCTTTC CTAAGGGACA GTCCCCATCT TTCCAAGGAG  
TGTTTTTAAA GAAGCACTAA CTCTGGTAGG TTATCAAACT ATTTTINAT TCTAAATAAA TAAAGACTA ACTGAAGGTC  
TCAGGTGCAC ACTTATTTT

SEQ ID NO:976: (Length of Sequence = 343 Nucleotides)

CTGTCCCTA AATATTATTA AAATTTTAAA AATTAGACAT TTGGTCTAAA TTAGACAGGT AAGATACTAC TGTCCCTACT  
AGATGCTTTA AAGTCATAAA CTGCTCTAT GGCCTTINAT AATTGTCNCA CTGCTTGCT TTAGAGCCAT TGGATTCTAG  
GTAAGGCCTA GAGACATTG GAGTTAGCCA TGTCCTTAG CTATGCTAGA AAGAGTCCGA CATTTATCTGT GGTTCGTGCC  
TGTATCTTAC ACTCTACACC TGATACATAA TTAAATTTAC TTACTATAA AATAAAATG GATGCATTTT TTAGGTAGGA  
AGGGTATGGG AAATTATAGG TTT

SEQ ID NO:977: (Length of Sequence = 265 Nucleotides)

ATCTTTGTAA TATCAGTGCC TAGACTAAGC CTGGGTATA ATAGGCACTC AGAGATTGA AGAATAAATG ACTAAATGAC  
TGTATCAAAT ACTTGCCCAT TGTGTCTGT TTCTGANTG TACAAGGCCA TCATGATAAT TGATGATCTT AATAATGTGA  
GAATATGATT CINTTACCTT AGTAAGAGAG CCATCAGTTT ATTGGATGAT AGTTATATGG AAAAAGAAGA AATGCTACTG  
TGATAAATAT TTATAATTTT AAACA

SEQ ID NO:978: (Length of Sequence = 285 Nucleotides)

ATGGTGGGCT GCCCTGGCCG AGGTGGCCAA GATGGCACTT GTTCTCTGCC TCANAAGAAA AGGCACTGAC GCACTGACCC  
TTTNAAGTTG TTTGGGTGT GTTCAGTGCC CTCCTGCCCTG AGGTCAAGT GTGTTTTCAA GTCAACTCA GCAGACTCA

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TTTAACCATT TTTTNTCC TTAATAAAAA AAAACCCAAA AAACCAAATC CCAATAAATA TGTTATTTTT NTCCATCACA  
ATATTGCTTT AGAAAAATAA GAGCCGTCAA GCAGCAATTT TTCCT

SEQ ID NO:979: (Length of Sequence = 316 Nucleotides)

GTCGGINCAC ACTCTCTCC TGCTCCCAA ACTCTCATC ATTGAAGCCG AAGTGGTCAA TGAAGGCAGA GGTGATGCGC  
TGCATCTGGA AGTCCATGAA GGCTGCTGC AGCACAGCCT CTCAGGGAA GTTGAATCC TTGAGCCGGT CGTCTCATC  
GTCACTGGAG GAGTGTAGGT GGTGGGTGTT CACCAGTCC ACCATGTTCT TCTTGTTGGT CTCGCCAGG GGCCCCGATA  
CGAAGGCTC CCACTGCTCC TGCTGCTCC TGGCAGCTC CTTGAGCAGC TTGCGCAGC TGCTCTGCAA TTGGGG

SEQ ID NO:980: (Length of Sequence = 386 Nucleotides)

AAACTGGCTT GCCTTCATCA TCTCTGAGG GNTCAGTAAA GATTAGAAAT GGATTATTTA CCTTGTTATA CAAATACACC  
TCCTCCCTAC ACCCAAGANT TGAGAGGAAG ATGAGCTGTT CCTGTGTAA CGCTGANTC AATCCCAITA TCTGCAITTC  
TGTTGTGGT TAGCGCTCCA GCAGCCTAAG GCGGGAGCTG GAAATGACAG CCTTGGAGAC GAGGAAGGCT CCAGGGAGGA  
CGGAGAGGAA CACCTGCTGA AGAATAAGAC GGGCGGCACC AGCCGGGCTG ATTTTGGGGA ACGGAAGGTA ACAGAGGGTG  
ATGCTTCTAA TCGCTTTTAC AAGGTCTTGG AAAGACGGGA TNGCCTTAAC CAACTTGGGG TTTCCT

SEQ ID NO:981: (Length of Sequence = 322 Nucleotides)

GTTTATTAAT ATTAAACAT ATTAAATAA TACATGTCNA TAATGAAAT GAAACATTAC AAATAAATAC ACAGGAAGG  
CAGTATTCCT CTCCAGTTC CACTCTTGA ATAACCAGTT AACAGATGA TGAACATCTT TCCATGATGT TCTCCAAGAT  
TCATATTAAT TTGCAATCA TACAATGCA TATACAGCTC AGGTGCGGTG GCTCAGCAA GTAAATCCCA GCATTTTGGG  
AGGCTGAGGC GGGTGGTTCA CTTGAGATCA AGAGTTGAG GCCAGCTGA CCAACATGAA GAAACCTGT CTCTTACTAA  
AA

SEQ ID NO:982: (Length of Sequence = 305 Nucleotides)

CCCAAGGCTG TAGTTCAGCA TCAACAGGC AGGGAGCTTG GCAGGGCAAG GGCAGAGCTG GAGATCATGC CCAGTNTCC  
AGGTGCCCTC CCTCCCAATC AGCCTGGGG GCACAGGACA GGGATGGAGA AGGGCTCTC TCCATGGCTT GGGTAACATG  
CCAAAGGCAG GTCATAGGC AGACTCAGTG GGGGTGGGG CCTGGCTAAC AAGCAATGGA GAGAACGGGG GCCATCCAGA  
GAGGTGGCA GAAGAGAGCC CTTGGGTCAA GAGAAACTT TGGGGAAGAC AAGACACGGG AGAAG

SEQ ID NO:983: (Length of Sequence = 399 Nucleotides)

AGCCCTTGTT TTGTTTTAA AAGCTGTCT GTTACTGCTT AAAGTCTCCA AACTGTTATT GAGAACACTG ACCAGAGCCC  
TGTCATAGA CCAGTGTCTT TCCAAGTGA GATTGCAACT CCTTGCAGA GTAGTTGTG GAGCCATTIN AGCTGACTAC  
TCACCAGCTT TCTTCAAAT GTAAATGGAA TAGGATAGAA AAATAATGAA AAATTGTAAA GTGAATTGGA TGCAAAAAGG  
GTAAATATTG TNGTTCAGA CTTTTTGGG TGAGTGTGCA TGTTTCACA TACTGGNTCA CATATAACA TGTATTGCTC  
ATTATGGGTT GGTTCAGAA AAAATTCAAG AAACGCTGTC TCAGACTGTC CCAAGTTGT ATTGCTTAT AATGGGACT

SEQ ID NO:984: (Length of Sequence = 408 Nucleotides)

GTTGTATGAG GTATCAATGA AATACATTTA AGATGTACAT TGGTTGTTT CAGAAAGCG AGACAAGTCA AAGCGGGGAC  
TTCCAGGCTA TAGGTAAAT TATACATTTC CTGGTTAAGA TTGGTTGAGT TTGTCTAAG ACCTGGGATC AACAGAGAGG  
AAATGTTGG NTTAAGACAA GGATTGTGA GACCAAGTT TACTACGCA GAGGAAGCTC TTAGCTAGCA GGCATAAGAC  
AGAAGAGGCT GTAAATGTT TTCTTATGAG ACTGAAAAGG GTGCTGACT CTTAATTGAT TATCTCCTGG NTCTGGAAG

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AAAAAAAAA GGGAAATGGCC AGGTGCGGTG GCTCAGGACG GGTCGGTGG CTCACACCTG TAATCTTTCT TAAAACGTTA  
TGAAGTTC

SEQ ID NO:985: (Length of Sequence = 439 Nucleotides)

TGGTATACIT TTGINTTTT TTCTACTTGT TAGTTGTATT AGTATCAAAT GGCATAATAA AGTTACTTTG TTTGCCATTT  
CCCACTCATC TGAAATCAC AAAAAGCATT TATTTCTAAG ATTTATATCC ACTGACCTTT TCCCCAAGT TATTTTCCTG  
TTACTTGTAT TTCACTTTTG CCTTATTTT TTTAATATTT GTATTAGAAT TAGCTTGCTC TTGTTTCCTT CACGGCAAAT  
GTGTTACATT GGGCACTGGG TGGCTTCTGC GGATGCCCCC ACCCACCCCT CGTCTGGAGC AGAGAAGTCC TGTTAGCCTA  
GCAGCATAGT GGCTGCTGTC AGTGCGAGGA GTTGCTCTTC TCTAGCATGG TCTGTGATGT CATCTGGACA TAATTAATTA  
GACTAATCCG AATAGAGGAC CAAGACAGCC CTGCTGCG

SEQ ID NO:986: (Length of Sequence = 286 Nucleotides)

CGCGACGAA CATGGAGAT CCAGCTTG GAGCGCAAGT CCTCTGCGG GAAGAAGTGT CGCGCTCCA GGAGGAAGTT  
CACCTTCTCC GGCAGATC AGATGTTG GCGAAGGACC TGGAGGAGTC GCAGGGCGGC AAGTCTCTCN AGGTCTCTC  
GGCCACCGAG CTCAGGGT CTGGCCCA GAAGGAGCAG GAGCTAGCCA GAGCCAAAGA AGCCTTNCAG GCCATGAAAG  
CTGATCGGAA GCGCTTAT CGAGAAGA CAGACCTGGT GAGCCA

SEQ ID NO:987: (Length of Sequence = 381 Nucleotides)

TCCAAGGTT TTCACTC TGGATAA ACAAA TG GTACATCTAC ACATGGAAT TTGGGA GATGAAACAG  
AATGINTAG GGGCCAC CATGTAT GGTG CG GTCTGCTCC CA TTTCCA CAGGCA G TGTGCT  
GGGTGAGGG CTGGGAG GGCAGGAG CATC AAC AAGGTGGAA GC GAAGA CGACCAG TCCACAGGT  
GTNTCACATG GTACAACCA GAGACTTGGC GTGCTAGAA CCAAGAAAC ACTCAGGACA CACGACAT CTGACGGGAA  
CCTGGGGGGT GGTGAGGAAA GTCTGACAG GGTGTTGGG GGGAGACTTG GAGGCCCTC T

SEQ ID NO:988: (Length of Sequence = 381 Nucleotides)

GAATTAATAC CAATAGAAGG GCAATGCTTT TAGATTAAAA TGAAGGTGAC TTAAACAGCT TAAAGTTTAG TTTAAAAGTT  
GTAGGTGATT AAAATAATTT GAAGGCGATC TTTTAAAAAG AGATTANCC GAAGTGANTT AAAAGACCTT GAAATCCATG  
ACGCAGGGAG AATTGCGTCA TTTAAAGCCT AGTTAACGCA TTCTCTAAAC GCAGACGAAA ATGGAAAGAT TAATTTGGAG  
TGGTAGGATG AAACAATTTG GAGAAGATAG AAGTTTGAAG TGGAAACTG GAAGACAGAA GTACGGGANG GCCTCTTCA  
TGTTTACAAT TTTAATTAAT TTTTITTATT TTAGNGTAA TTTCTTACCA AACATTACCC A

SEQ ID NO:989: (Length of Sequence = 432 Nucleotides)

GTCTTGGGAT CTGCAACCT CTGCTCTCTG GGITCAAGCG ATTCCCTGCT CTAGTACC CAAGTAGCTA AGACT G  
CATGCGCTG CTGCTGGC TAATATATAT ATATATTTTT NGTAGTTTIA GTAGAGCGG GGTTCACCA CGTT G  
GCTGGTCTCG AACTCCAGAC CTCAAATGAT CTGCCCCCT TGGCTTCCA AAGTCTGGG ATTACAGGCA TTAGCCACTG  
TGCTTGGCCA ACAATATATA TTAATAAGC ACACATACAA CAAAAGTAGG TGTGGTAAAG CTACAAAAA TGTGACCAGT  
AGCTTGCTGA AACCTAAGTT TTTATTTGTT CATGGAAGTT TCTAGACCGT AACTACACTG AATAATGAGA ATCTGCTGTA  
ATCTTTTTTA GGTGCTGTAG ATGAGCCATT GG

SEQ ID NO:990: (Length of Sequence = 421 Nucleotides)

GGCAGCCCTA CTTTINCTC TCATTAGCAG TTTCAGTCCA CAGCTGGGT ATTAAATTG TNAGTCATTG AAATTAATCC  
CTGACTGAAT TGGAAAGGAA TTGTATTTGC AGTATTGGA TTTATTTATT TTNCAGGTAT GGAATCTGG TGATTTTGA

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AACATGAATG ATACCATTTT GCAGCAGCAT TGTAGATTG TAGTATTTTA GATTGGTATC ACAGTGCACC TGAAAAGTAA  
GTTTCATTTT ACTTTTTTNA TTGTTGTGA GACGGAGCTC ACTTTTGTCA CCCAGGCTGG AGTGCAGTGG TGTGATCTTG  
GCTCATGGCA GCCTCTGCCT OGCTGGGTTC AAGCGATTCT CCTGCTCAG CCTCCGAGT AGCTAGGACT ATAGATGCTC  
GCCACCATGC CCAGCTAATT T

SEQ ID NO:991: (Length of Sequence = 351 Nucleotides)

CCTCACTCCC CGCGCTGGCA CCTCAGGTTT ACAAGAAGAA CTAGGAAATA ATGCCGGCCA CGGACCCCT GGAGAGGGGG  
COGGCTAGAA CAGCGTTCCT AAGAATCCGC GCCACAGCAG GTCCCGGAT GTTGGGGCCT TAGTGTATC GAGCTAGCCC  
CAATCTCTCA CCCGATCTTC AACTTCTGGT AGTCTTAACA GAAGTCTCGT ATTGAACCAG CCACTNIGGC CAGGGAGAAG  
TAATCTCTG ATAGTIGAGG TTCTTINCIC TCCTCTGGAG CAGATAGTGG TGTCTCTCC CCACAAAGCT CATGTTCTGC  
TGGAAGAAAT GGAGATGGCG CCTGGAAGG C

SEQ ID NO:992: (Length of Sequence = 406 Nucleotides)

CCAGAAAAA TGGCCACTAC TACCACITGG CTCAGAAATG CTAGTCTTTA TTTNCTGAAA TGTTTATAT AGAAAAAATT  
TAATAATAAA TAGACATTCT TATATAITTC CTACCATTT NAGATTGGGT TAAAAAGTAT GGNGACTTCC GGCCGGGTGC  
GGTGATTCAA GCCTGCAATC CCAGCACTTT GGGAGGCCGA GGCAGACAGA TCATGAGGTC GGGATCTGTG GCTAACACAG  
TGAAACCCCG TCTCTATTAA AANTACAAAA GGAATTCCTG CAGCCCGGGG GATCCACTAG TTCTAGAGCG GCCGCCACCG  
CGGTGGAGCT CCAGCTTTTG TTCCCTTTAA GTGAGGGGTT AATTTCGAGC TTGGCGTAAA TCATGGTCAT AGCTGTTTCC  
CGTGTG

SEQ ID NO:993: (Length of Sequence = 381 Nucleotides)

ATGGAAGGAC CGTCCCGGA CCCCAACGAG GCANTGGGG AGTTTGCCAA GGAAATTGAC ATCTCTGTG TCAAAATTGA  
GCAGGTGATC GGAGCAGGGG AGTTTNGGA GGTCTGAGT GCCACCTGA AGCTGCCAG CAAGAGAGAG ATCTTTNIGG  
CCATCAAGAC GCTCAAGTCG GGCTACACGG AGAAGCAGCG CCGGGACTTC CTGAGCGAAG CTCCATCATG GGCCAGTTCG  
ACCATCCCAA CGTCATCCAC CTGGAGGGTG TGTGACCAA GAGCACACCT GTNATGATCA TCACCGAGTT CATTGAGAAT  
GGCTNCTGG GACTCCCTTT CTCCCGCAA AACGATGGC AGTTTCACAG TTCATCCAGC T

SEQ ID NO:994: (Length of Sequence = 384 Nucleotides)

GTCTTCCAG TTCCGAAGGA TAAATCAAA TTCCACTTT CTGGGGTGA TGCCCAAAC CTTCACACT CAAGTGTCT  
CCAAGTGCAA ATGTCAAAT GGGAGGAGGA AAGGGTTTAA AAATTAGAGA AAAGTGTATG CACTTACGGA CTAAAAATC  
CGAAAAACAT AGTAAAAAGA CAAAAAACA TAGCAITATG CTCTGAAATC ACAACCAAAG CCAAAATAAA AGGGACATTT  
TTCACCTAAA CTACCTAGAG GGATTTTTTG TTGAGTTTTT CCTTTTTCTT TTTTTTTTCA TTTTCCAGTT AAGTCTATG  
TCITTINGTA AATTCCAATA CTAAACTGC AAGTCTGCAA TGTCTCTGA AGTCAGTGAA ATTA

SEQ ID NO:995: (Length of Sequence = 386 Nucleotides)

ATAACTTTAA CAGAGGATTG GAATAATGAG GGATTGGCAA GGAAGCAGTA AAAGGGAACA CTAAAGTATA GAATAATAGC  
AAACAGAAGG AGCACCTTAC CCTAGGGCT GAGAAAGAGC ACAGGGAAGT CCTTTTTTNT TCCTGGACAG AGATCCAGAC  
GAGCTGGAGA AAGAAGTTGC TATGGTACTG CATCANTGGA ACTTGTCTGA AATCCACCT CAAGGGCACT AGGAAAACCT  
GTTACGGGA GCTGTGGAGG GAAATGGGT TGGCAGGAAA GCTGTGGGC GCGGGTGCT TCAGACTGCA GTGTATTGCA  
GGAGCTTGG CACTGGGGAA GCTGTGTGCA CTGCAGGATC CTGCTGAGCC AGCACATCAG ATCAGG

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SEQ ID NO:996: (Length of Sequence = 307 Nucleotides)

GTGCGCCAAC TGCAAGAAGG AGGCCATCTT TTAAGTGTGT TGGAAACACCA GCTACTGTNA CTACCCCTGC CAGCAAGCCC  
 ACTGGCCTGA GCACATGAAG TCCTGCACCC AGTCAGCTAC TGCTCTCAG CAGGAAGCGG ATGCTGAGGT GAACACAGAA  
 AACTAAATA AGTCTCCCA GGGGAGCTCC TCGAGCACAC AATCAGCACC TTCAGAAACG GCCAGCGCCT CCAAAGAGAA  
 GGAGACGTC GCTGAGAAA GCAAGGAGAG TGGCTCGACC CTGACCTTT CTGGCTCCAG AGAGACG

SEQ ID NO:997: (Length of Sequence = 402 Nucleotides)

TCTGCACCTA ATACTGAGGG TGTGAAATCT TCCTCAGTAA TGCCAGCCC TAGTACCACA TTAGCGCGGC AAGGCAGTCT  
 GGAGTCACCG TCGTCCGTTA CCGCAGCAT GGGCAGTGCT GGTGGGCTAA GCGGCANAGC AGCCCTCTCT TCAATAAACC  
 CTCAGACTTA ACTACAGATG TTATAAGCTT AAGTCACTCG TTGGCTCCA GCCAGCATC GGTTCACTCT TTCACATCAG  
 GTGGTCTCGT GTGGGCTGCC AATATGAGCA GTTCTCTGC AGGCAGCAAG GATACTCCGA GCTACCACTC CATGACTAGC  
 CTCACACGA GCTTCTGAGT CCATTGACCT CCCCCTCAGC CATCATGGCT CCTTTGTTT GGACTGACCA CAGGCACTCA  
 CG

SEQ ID NO:998: (Length of Sequence = 304 Nucleotides)

GCAGCTGT GATTGTNAAG ACTCACAACC ATGTGGAGAG GCGAATCAC GCAGGAGAGC CACGCATTGG AGTACCCTGG  
 CTCACAGCCC CTCCCCACC CCGTNTGAG CCAGAGAGCT ACAAGCAGGA ATCCAGTGC AGCTGCAAT NATGGCCATC  
 GAGGAAGTCT GTGGAGAAGA GGCTGGGGC TGTGGTCTG AGGGGGCTA GGCTCAGCAC GGGACCCT GACGACAGCT  
 CCCAGCCAGT CCATGCTGTC CAGGTGGCCA TCAAGCCAGG TTCCAGGGCC CATGGGTGCT TGCT

SEQ ID NO:999: (Length of Sequence = 321 Nucleotides)

AGAATGGTTT TGGAGCTCGA NATCTTCATG GGTAGACTT GCTGGTCAGA CCCAGGAGCA CCTGTGGCTC ACACCTTCTG  
 TNCCCTCCT GGCTGTGCA GAATGTAAAC AGCAGACTCA TACTCAATGG GCACTACAGG CCTTATCAGA CGTTTATAC  
 AAGCTGGAT TGCTTAGTAG GGAATAAGG CATTCTCTGA GGGGGCTTTC CACTTAGATT GAGAATTTTA TTGAAAAGA  
 ATCTGGTTTA AATGGCATG TGTCCGAGG TAGCTGCTCT CCCACTGAG AGCTGAGCCG AAATATAAGA ATAATATATT  
 T

SEQ ID NO:1000: (Length of Sequence = 253 Nucleotides)

CCCTAGAGGA TTTGCGTCT TTNATCTGCC AGTGACCTGA ACCACGAGA TTTTCAAGC AGGAGGGCCG ATTGGGCAAC  
 CACAGCTCCC GTGCTCTCTC TTTGCACTGC GCGGCTTTC CTCCGAGAAG GACTTTGAGG ACTACATTAG GTACGACAAC  
 TGCTGTCCA GCGTCTGTC CCGCTGGTC TTGAGCACC CCTTCAACCA CAGCAAGGAG CCGCTGCCN TGGCGGTGAG  
 ACGTGGGCC GGG

SEQ ID NO:1001: (Length of Sequence = 164 Nucleotides)

AAACAGAGTA CTGGGATGTC ACTGTTGGAA AGTGCTCACA ATTTCTCATC TAAGCCGAAG TTGTCTGTC TCCTTCCTAC  
 CITTAACAGTT TCTCAGTCC TGAAGGCAGC TGCCAAAACC CCTCTAAGCA AGCAGCACTC TTACCCACCA AAATCTATGA  
 CCTC

SEQ ID NO:1002: (Length of Sequence = 262 Nucleotides)

ATATCTTCTT GAGGGAAAGT GGTAGAGTTA AAGAGGGCAT AGAGAGCGCA CTCATGCATT TACAACCTCAG AATTTTAAAA  
 AAAGTTTACA TTTTGTCAAT TGTACTTCAG ATGAATTTC TTATTAAGAG AAATAAGGCC ACAGAGGTAA ACTTAAGTCT

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CTGTTCCTCC AATGCCTACC CTCCTCTTC TCCTTCCTC TTTCTCTTC CTAGAGAAAT CCTGCCTTCC TTTCCTTCC  
CAGAGGCAAC TGGCATTATA AT

SEQ ID NO:1003: (Length of Sequence = 267 Nucleotides)

GGAAAGAGGA GCAGGTCTGG AGGTTTGTGG AACCCAGTCC CCTGCAGAAT CTGTAAAACC TAATAAATCA TGGTGTGGC  
CATTCCTACG GTGGTGATTG TAATTAGACG ACCCCGGGA AGCCAGACA CTCGGGGCCT GGAGTTCCTC CCCCTGCCCTG  
ACCTAGAAGC AGAACCGTTT TCAGCGNTCT GCCCTGTGG CTTTAAGGCT TTGTCTTAAT TTAAGGAAA AGATCCTCCC  
GGGTTTTATT TCTCTCTTC TTGAGTG

SEQ ID NO:1004: (Length of Sequence = 277 Nucleotides)

GGTTCCTAAA CACTTCTTC CTGAGATGTT AAGCAAAGTA ATCATCCTGT CACTAGATAG AAGCGATGAA GATAAAGAAA  
AAGCAAGTNC TTGATCAGT TTAICTAAAC AGGAAGGGAT AGCCACAAGT GACAACTCA TGCAGGCTTT CTGAATGTN  
TTGGACCACT GTCCAAACT GGAGGTGAC ATCCCTTTGG TGAAATCCTA TTTNGCACAG TTTCAGCTC GTGCCATCAT  
TTCAGAGCTN GGTCAGCATT TCAGAACTAG CTCAACC

SEQ ID NO:1005: (Length of Sequence = 271 Nucleotides)

GTTAGGTCAT TCACACATGG TGGAGACAGG AATCTACAGA CTAGGGATCA GCCCCAAGGC TATGATCTTT GTNCTGGCC  
GCTCTACCCC TGAGCAGACG GGCCAGAGGT CCAGAGAGGG CTGTGCTGGC AGAGTTCATA CTTTGATAAC TGAACCCTAG  
AGTAAGCCTG CCTGGGAAA TNCAGCTCA AGGACTGAC AGGCATAATG CTCCTTGGGA GAGAAATGCC ACATCTGCAG  
CGACACGNAT CCTTAACACT GTCCAGGAC T

SEQ ID NO:1006: (Length of Sequence = 336 Nucleotides)

TATTTTNCAG ATATGGATAA AAATTGCTTA GGAGAGTAA GAGAGACAAA GTTGAAAGCA GGTTTATAGT AGGTGTGTGT  
TTAGTGTTGA TCCCTTTTGG CTCCAATAAT CAAAGTGATA AATATTGAAA ATTGATTCAT GCAGCATTAC TTAICTCAAT  
CTAATTTTNA TATATGTCAA AAGTGCCATC TCCCAAAGTG TGCTATCCCC TTCAGGAGAA GAGACTCTGC TGAAGTTTTAT  
AAGTTTGACA TATTGCCAGC TTCAATAATG TAAAGATGAA GTGTATACTG GAATTCCTTA TGCAAATAAC AACTCTTTTG  
GGAAGTAACC CCGTTT

SEQ ID NO:1007: (Length of Sequence = 355 Nucleotides)

GGCAAGAAGG CGTCGGCGGC GCANTGCGGA TCCAGAAGGA CATAAACGGC AGCTGTCTCC TCCAGGCTGG TGGGCTTNGT  
GCCCTCGGCC TTGGGATGCT TATCAGATC CTTTGGGACC AGAACACTGG ATATCAGTNC AGCCTCTGGG CCAGCTTCAG  
AGGCTGTAG AGCATCATTTG CTGCTGTGGC TGATGCTTCC TTTCTCAGT AAATCACAAA AGTCGTGTG GCCATCCAGG  
TTACCGAGTG ACTTAATTTT CAGAAAATTT AATATTGAGG TCATTATTGT ATGCATTTTC ACTGTGCGCA TTTTGTATC  
CTCGTAGGTA GGTCATGAA GTACCACTGG GTTCA

SEQ ID NO:1008: (Length of Sequence = 269 Nucleotides)

ATATTTAAAG AGAGCTTTGG TCAGTAAAAG TATAAANCT GAGCTTTGGT AAGGGTACAG TTTATAAGGC CTAGAGAACA  
TCAAACATT CATTTTATAT TGAATGTATA AATACCCACA TGTGAGAGCA CATGTTGATT CAGTTTGAGT ATGTCCTGCC  
TGTCGNTCTT TAAACCTTT CCAGCCTGGG TTATTTTCCC AAGCTTCTT TATAATTACA CCAGGGAAG AGTTACCNGG  
NATTAATCAA AACCAGACAG TGGACAATG

SEQ ID NO:1009: (Length of Sequence = 295 Nucleotides)

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GATAGCAGCA ACATACGTTT GTTTATTCAT TTGCTTACTT ACAACAAACG TTTATTCATT ATTTATAATG CAACAAGCAT  
 TAACCTAGGT GCTAAGGAGA GAAAAATGAG TAAGACACAG TTTCTTTTCT CAAGGAAATC ACAGTCTGTT GGCAGAGATA  
 AGTAGTAATG GTGCCTAATA TAGGTAACAC TTGCTACCTG CTCCAAGAAC AAAGTTAAGC AAGTGATTAA GTTAAGCAAT  
 GCTTAGAGGT AGAGGATGTA AGANTGGCCT TAAAAAATGT GTCTTCTGAG ATGAG

SEQ ID NO:1010: (Length of Sequence = 356 Nucleotides)

GTATTTCCCTC ATTTGTGCAA ATNAAATAGA AAAGGTAAAT NAGAACTCA AGAGGTTTGT TACCTACTGT CAATGGAGTG  
 GGGAAAATGG GTGGAAAGAA GAAGGCAATA AGAAAAGAGT AACAGGAAAC GACAGTNGAC ACTTCTGAGT ATACCTTGTG  
 GAATCTCTTT CACTCTTAGA ATCATAGTAA TAGANGANGA AAAAAGAACT CCCCAAACCTG AAAAGGATAG ACCACTGGAA  
 CAACTTCAAG TGGTCTAATG TAGAAGCAAA TGGAGTCCCT CAAGGAAAGA AGAGAGGTTT TGAAAAGAAA AAAACATTTG  
 AAGAGTTAAG AGCGAAACAC TTTCCAACT TAAAGG

SEQ ID NO:1011: (Length of Sequence = 315 Nucleotides)

AGAGAGACAC AACTGTAATA GAGACACAGA GGAGTGGCAC ACAGAGACCA CCTCCCAGCT GGAGACAGTC AGGAAGGACT  
 GAGGGAGAGG GGACAGCCAG GGCTCCACAC CCAGGCAAGA ATGGGGGAGG GCTGTGGAA CAGAGAAGTC ATCAACACAC  
 ACAGTTCAAA GTCTACCTTA GGCTAGGAGG GGGAGCAGGA AGAAGGGGCA GGGACGCAGG GGCCCGGCCT GCNAGCTCCC  
 TGTGGCCTC TNCCTGCCCC TGCTGGCTCC CNCTGCGGTG CTCAGGCAGG AAGAGAGGAG GCTGCTGTTT TTAGG

SEQ ID NO:1012: (Length of Sequence = 272 Nucleotides)

CCCAACTCTA TAGCCCTAGT CAACCACTAA TCTATACCTT GTNCTCTATA GATTTCCTTA GTCTAGAAAT TTTGTATAAA  
 TGAAATGCAT GCACTTGAAC TTTTGTATC TGGCTTGCTT TTCCATTAG CATAAAGTTT TAAAGGTCCN CATATGTTGC  
 TGCATGTGTC CATTTCTTTT TGTGNACTGC NATATTACAT TGTATGGGAT ATACCATTTT GCCATATTTN GTTAAATCCA  
 TTCATCCAGT TGGTGGGACA GCAGTTATT TC

SEQ ID NO:1013: (Length of Sequence = 252 Nucleotides)

TTTGTTAGTG TTTTCTACAC TACACTCAAG TTCATTGAGC ATGTCAATTC AACACATGT GACGTGTCAA CTTCAAAAAT  
 TAAACAAACC AGCNAACAC AACACTGNC ACTACAAAGG AACTTGTTTT ATTCTCAACC TTCTATGATA GCTAAACTTC  
 TCTGNAATTT NGTTCCCCA CACATCCAC ATCTGGGCTC AATTCCAGC TTCGTGTTTT CTGTTTTATT TCATCCAAAA  
 TGTATTTTAA AT

SEQ ID NO:1014: (Length of Sequence = 210 Nucleotides)

GGGATACACT GACAGTAATG TGAAGCGCA CACTTGCAGA TTTCAGGCC AGCAGGTCCT GGNCAAGTGC CATTCCACCC  
 GGAACTTTTA ACCCAAGCGG TGGGGAAGGA AAGCCAAAAC TCCAAGCTGG CACTTTTTTG GGGTCTGGG CCATGACACT  
 TCTTAGGCCT TCTGCTGCTG AACTTTTACA GGGACAAAAG GTACCCACG

SEQ ID NO:1015: (Length of Sequence = 222 Nucleotides)

GGNAAGAAAG GTTCTCAGA GGACAGCCTT ATTAATTTCT CAGAGGATGA ATTTGNACAA TGGCAGCAG TTGCAGTCAC  
 AACTTCTTAA GGTGCTTCAG AGGCTGATTG TTCTAGNAA CACAGAGTAA TGAAGTATTC CTGAAGAGCA ATGAAACAGG  
 TTTTGAATTT TTTGTATCT GNACTTAGNA ACACATCAGT CCCATCAAC CCATGGACTT CT

SEQ ID NO:1016: (Length of Sequence = 236 Nucleotides)

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GAATAAACTG GTTTGGAACC AGAAAAGTAC AAAAAAGAAC AGCTAGAGGT ACATAGACAC AGGACAATTA ATCAATTG  
 GAAAAAAGAA AGNACTTACT TTCTCCATTG CTGCCTGAAT TGTTTCCCAA TCTGCCTTGA AATGCCACTT TTGGCCAATA  
 TTTTINCAAA AATTTGACCA AAAAAGAAAA AGCACTNAAT TTCCCTTTTT ATACAAAAAT GNTTAAGTAG GCAAGT

SEQ ID NO:1017: (Length of Sequence = 259 Nucleotides)

GCTTCCCTAG ATTTTTCCTT AATTTTGGAC CTATGTGGAC AAAAAAATA ATCTAGTCCA AGCTTTCCTT ACCTTCTTTT  
 TTTATTGCGC TTCTGCTTCT GNGTTCCACA TGGGAACCTG AAGTGGTTTA TAAGAATGCC ATGCTGTGCA AATAGTAAAA  
 ATGAATTTNC TGATTTTAA AAAAGCCCTC AGGAACGGCA TATGTATANG GTATGTATAT GAAAAAANGT GTTNAGGAAT  
 GCAGGAGGGA AACTAGGCG

SEQ ID NO:1018: (Length of Sequence = 354 Nucleotides)

CTGGAGGAGG AGAAGAAGCA TCTGGAGTTT ATGAATCAGC TAAAAAATA TGATGACGAC ATTTCCCAT CCGAGGACAA  
 AGACACTGAT TCTACCAAG AGCCTCTGGA TGACCTTTTC CCCAATGATG AAGAGACCC AGGCAAGGA ATCCAGCAGC  
 AGCAGCAGC TGCGCCCGC GCTNCCAGC AGGGCGGCTA CGAGATCCCC GCGCGGCTGC GGACGCTCCA CAACCTGGT  
 ATCCAGTACG NCTCGCAGG GCGCTACGAG GTAGCTGTGC CCTNTNCAA CGAGCCCTG GAGGACCTGG AGAAGACTTC  
 AGGACACGAC CCACCCGAC GTGGCCACCA TGCT

SEQ ID NO:1019: (Length of Sequence = 393 Nucleotides)

GATGACCGAT TTGGCCATGG AAGACTATC TTCATGGCAC AGAGAGNYTG TSCAGAGATG AGTCAGACTC AGGGGCTGAG  
 TAACAGCAGA GCAGAGAGTG CAGAAGTGA CGCTCAGAAG CGAGTTTATG TGIGTYTTTY CCTCTATCTG CTGGCTGTGG  
 CTGGTACTGC AACCTATCCC AAAGTAACAG CCTAGTCAAT GAGGTATATG CTTGAGATCT GGCAACTCT CTCTGCACAT  
 AAAACTGTTA TTCTTAGTTC TCTGAAAGAC CCCACATCT TTGAAGTGA AACTAAGAGC TACATTTTCC CTTTACTAC  
 ATCTCCCTTA AAAGGAAAGC ACTACAAGAG CTTTAAAAA GCAAGCTTCC CTATTCTAAG GGGAAANAGT CTT

SEQ ID NO:1020: (Length of Sequence = 403 Nucleotides)

CTGAGGAAGA GAGGTGAAGT GGCATCTACC CAAAACACCT GTGTACTGGT TAATAAGGTC GGTAGTTCCC ATTAATGAGC  
 TTGATGAAGG ATGGCACCTG ACAGGGCCTT AAATGANCTG ATGGAGTGAA TGTNACCACT GTGAATTAAA TTNCTTTAT  
 ATATAATAAA TAGCTGTGCT TACACATTTT CAGATTNCT TTGTGAGCTA TGGACATGGA ACAGCGGGAC TATGATTCTA  
 GAACAGCACT CCAATGTAGCT GCTGCAGAGG GTAATACAGG AACTACTCCT ATCTATTTCC TTTCCAGATT TAATTTCTAC  
 TTAGTACTAA AATCTGCTCT TTTTTTGGG GTGGGACGGT ATAGGTCATG TTGAAGTTGT TAAATTTTTT NCTGGAAGCC  
 TGC

SEQ ID NO:1021: (Length of Sequence = 452 Nucleotides)

ATCGCAACCT GGCAGGGGTG TGGGGTITGC TGGGGGCCTC TGTGGGGCCA TGATCTGAGG AGGGTATGTG GGGGGCGGGA  
 GCTCAGCACA TTCCATGGCC TAGAGGGGCC ACACAGAGGC CCCAGTGGGA CCCATGGCGT GGAGGCAGGT ATGGGGAGTT  
 KTGGGGAGAT CCCAGGGTGG TCTGGGGCCT GGAACGGGCC ATTKGGAGGC CCCAGCAGTT TCAKTGCCCA GGGCCTCCCT  
 GCAGAGCCAT GCATGGCAGA AGAAGTGTGT AGCATGAGCT GGTACACGCC CATGCCCATC AAGAAAGGCA GTGTGGTCAT  
 GCGTKGGAC ATCAGCAGCA ATGGCCTGGG GACCTTCATT CCAGATAAAA GGTTCCAGAT GATATCAACG GCTTCTTGAA  
 GAGAGACCCG GGCAATAACA TCCATTCAAT TGGGAGAGGA GTTGAGGGAT NT

SEQ ID NO:1022: (Length of Sequence = 413 Nucleotides)

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AGCAACAGAA GAAAGGGCCA CATATATGCA AATGCCTGGT CACTATATCT GGCCCTGAAG AAGGAAGGAG TTTGCAGGGC  
 TCAGGAGACT GGAATTTTTC NOCAGGAGCT AGGAACGAGG GGTGCGGAGA CGTTGGTCAA AGGGTACAAA GTCCAGTTA  
 TGCAGGATGA ATAAGTTCTG AAGACCTAAC ATACAGCCCA GTGACCATAG TGAATAACAC TGAATGANCA GTATACTCGA  
 AATTTGCTAA CAGAAGAGAT CTTAAGTGT CTCATAACAC ACAAACATA GCAACTGTAT GAGGTGATGG GTATATTAAAT  
 TAGCCTGACT GTGGTTATAC ATTTTATCAA AATGTCACAC TGTGGCTGAG TNCAGAGGCT CATACTATA ATCCCANCA  
 TTTTGGGGA GCT

SEQ ID NO:1023: (Length of Sequence = 379 Nucleotides)

TCAAGTCTCA AAACCTTAAA AGACAGTAGA TATTTGIGGT TTTCTAGCTA AATGAGGGCC AAGATTGNC TTTTCAACT  
 AAATTGAATC ATGTAGTATA TCTGATTCA TAGCTTCTG GGGGAAAAGG GAGGATTGA ATTAGCAGCA GTGCAGGTCA  
 GGAGCAGTAA AGAAGACAGT AGGAGGAGTC CAACTACAGA TGTGAATGAN CAGCCTCAGA GGAACACATG AGAAGGTGAC  
 CTGCTGTTTA TCAGGAAGGC GGGGCTTCT CTCTAAGATA CAAACCAAT AGGAATCGTC AAATAGTTCA AATTATCCGG  
 GGGAAAAGC CTGAGCAATG ATCCCTCTGG AAAACAAAGC AGTCTCAGG CAGCACCTT

SEQ ID NO:1024: (Length of Sequence = 320 Nucleotides)

AGTCTACAGG AACAAAGAAA TCTAAGATGG CTGCTCAGCC TTGAATGTA CATGTTTTC AGCAAAGTTG TGAAGAACC  
 TTCCGTTGGC ACAGATTGTC CTTTTTACA AGCATAACA AGCCTCCTTC CGCCAGGNC TCTTCGGTTG CATCCTGCA  
 AATGGCTCCC ATTTGACACA TTCCTAAGTC TAAGAGATC CCACTAGGGC AGCTTGTA GATTCTGAAT CCTGGGCCAT  
 TGCACGTCAA ACAACTGATA TCACATTTTT TTGCAGGAT TGTATCCATT CTCTGAAGAG TGTCAAAGT AATAGCTGAT

SEQ ID NO:1025: (Length of Sequence = 366 Nucleotides)

TATTTAATCA TTCTTTTCTT TGCCTGAAGA CTTAAACTA AGAAGATTAT TCGAATGGTG AATTAAGTTG TGAAGAGAC  
 TATTCCAAAG GGATAGAATG AGACTAATTY CTGACTATGT TTTGCTAGTG ATGGGTGGAT GGAACAAAC ATTACAAGAA  
 ATAGCATAAT GAATGTAGAA AATATTTTCA TTTGAGATG TGCATGANIT AGTTTCCAG GTTTGCCACA ACAAGCATC  
 CCAAAGTGT GGCCTAAAA ACAGAAATTT GTTTCATGGT TCTTGAGCCT AGAAGGTCAA AATCAAGGTG TTGGCAGGAC  
 CATGCTCTCT CTGAAACTCT AAGGGAGAAG CGTTCTTGT TTCINCT

SEQ ID NO:1026: (Length of Sequence = 379 Nucleotides)

GGTGCAGGTG CATACAGGAA GGACCATGTG GGCTCAGAGC AAGGGGGCGG CCATCTCCTA GCCAAGGAGG GAGGGCTCCA  
 GGGACCCCAA TCTGCTGGC ACCTAGGCCT TGANCTTCCA GCCTCCAGAC TGGGAGAAAA TAACGTCTCA TTGTTAAAGC  
 CCCAGCAA TGANTACAGA ACCTAGGAAG GGGCAATGAA TGANTGATAG GTGGAAGGGC TAAGAAGAAA AGAGGAGGGA  
 GAGGAAAGAG ACGTGCTCAG ATCTGTCTCT NCTGGACATC CGATCCAGG CTGTCTCTTC AGTGGGNC CAAGTCCAACTA  
 GCAGTCAGCT CAGAAATAAT CCTNAGGCA TCGAAGCTTT CACAAAGGAG GNCACAAAA

SEQ ID NO:1027: (Length of Sequence = 411 Nucleotides)

GCCTTGGCA CCTAGAAGCA GCCAGGAGG AAGTACTGAC CATTTAAAG TGGCAGATCT CCGGGCCCCA TTCTGCAGC  
 CTTCATTCTG CAACTCCAGG GAGGGTATTT TTNATTGTG GGTCAAAAA ATCTGTATAT ACAGTCTATG TGTTTAGAAT  
 TTGTGTGTA AGTAACTAC AGCTTTGAGT TGGAAAGAAG TCACGGGTG TAAACCATTT TGGATTTTTT TAAACAAAA  
 GTATTATAA TCTGGAAGAC AGINTGCCC AGGTGAGGAG TGTTTTCTG GTGGTCCAG CCCCCATCA TTGAAGTTT  
 TCTGGGCTCA GTCAGACACA GACATTCATC TGTGTCGAC CAAATCAGG GCTTCCAC CTGTGGGGGA GGGCACAGTT  
 AGGATGTTTT T

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SEQ ID NO:1028: (Length of Sequence = 401 Nucleotides)

GATCATCATG CAGCTCAACT TTCTGTTGGA TTCCATGCTA AGCAAGCTAA CCTTATCCTG CATGTGTAGC ACTAGGCACC  
 CAGCTGCCAC CTCTCCATCC TGCTGCCCTT AGGCCACATG GGAGCAGTCC ATGCATGACA GCGTCTATCC TACAAGGCCT  
 ATGAGTATGG ATTGGGGGGG CCAAAAGGAA AAAGCTOCAT GTGCCCTCTT GTCTGCGTGG GTCAGAAGAG TTGTGCACGC  
 AGATTAGCAG GCCAAGGTCT GAGCCACAGC AGCATTMTTA TTTCAGATTT TGATAACTGT TTATATGTGT TGAAACCAAA  
 NTGNCATCTT TTAAAGCTT ATCCATAAAA AAAAATAGAT GTCTTTTATA GTGGGAAAAC ACATGGGGGA AAAAATCATC  
 TATTTTGATG CAGCATTGTA TAATGNTTAA ACACCTCACA CCTCACTCTT

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GAAAAATGCC AATTGGATGC CCTTAGGTGG AGGTGAGAAA ATGGCATCCT TGCCCTCTTC TCAATATGAA ACATTAACTA  
 GTTGACAAAT TTATCCTTGT AGAAATGAAA ATCTATTTAA TCAGGGACCA GAAATGGCTG AGGAGATAAA TGCATCAITA  
 CAAAATCTG CTTTTGAATC CTGGACATTA CAAGGGGGTA AATGCAGCAT GACTTTTGT TAACCACATT CCAAATGTG  
 GAACATTTCT TTAGAAATG AAAATATTTT AAGGCTGATG TATTTTAAAG CTACACATTA TCAGGNCAT ACATTGAGAG  
 TTCGCTTAAT TAAAGGTGT TGGGCATCAA ATTATGTTA GTAGGTACT ATTCTTAAC AACTCAAGN TGCITTAATG  
 G

SEQ ID NO:1030: (Length of Sequence = 340 Nucleotides)

TTCCCGCTG ATCCAAGAA CCTCTCGAT TTAAATTTN ATTTTAAAG AGGGAGACGA TGGACTGAGC TGATCCGCAC  
 CATGGAGTCT CGGGTCTTAC TGAGAACATT CTGTTTGANC TTCGTCTCG GAGCAGTTTG GGGGCTTGGT GTGGACCCCT  
 CCTACAGAT TGACGTCTTA ACAGAGTTAG AACTTGGGGA GTCCACGACC GGAGTGGTC AGGTCCCGGG GCTGCATAAT  
 GGGACGAAAG CCTTINTCTT TCAAGATACT CCCAGAAGCA TAAAAGCATC CACTGCTACA GCTGAACAGT TTTTTCAGAA  
 GCTTGAGAAA TAAACATGA

SEQ ID NO:1031: (Length of Sequence = 452 Nucleotides)

CCAGGGGAAG GNTCCCAAGG GACGGGCTGG CAGCCGACA CATGGACAAA CTGATGGACC CAGGACTGAT CAGACAAAGC  
 TCTCATTAGC AGAATGTGGG CACCTGCACC CAGGGCCCAT ACCAGTCCC TGTGAGCAAA AAAGCTTAAA GTTCTCCCTC  
 CAGSCCAGG GCCAAGAGCG CCTCACAAG GGCTGCTGCC TTGAACCTGG CTGGGGAAA TNAGACCCCTG AGCGGACCAC  
 AGCCCTTGAG CCTGGGAGG AGCAGCCCAT CCAGNAGCAG CACAGCTNCC GAAACTTGAG GAAGAAGACT TCCACCCATA  
 GCACAAGAAC TGCAAAATCT GTCTNGENCA GAGCCACCAG AGGCCITAGG CTTCTTAGGA CACCGATATC CCCCATTCAT  
 GGGGTINGGA GGGAGTGGCT TTTTTAGGCA AGGGACTTTG TTAGAGAGGT TT

SEQ ID NO:1032: (Length of Sequence = 411 Nucleotides)

GAATCTACAG AAACATAAAT TATACAGAT TGTCGTGAC TGGTTTGTA GAACATCAGT GTATTAGGA GAATGGTAGT  
 TTAATTTGAA TATTTAAAGA AAGTAATTG AATGGTCTA GTACTAGGGC CATTTATTAC TAGTAACATA GATTAGTGAC  
 TTCAACTGGG TGTCCTTATT ATCTGATTTG TCTGAAGTGA AAAGTGTAA GGTGCTCTT TAAATGTAT TTGGAAACAC  
 CATAGTTAGG GTAAATNCAA TGTCACAATT CACTCTGCA TATTATTINC TTAGCCAAAT TTATGAATC TAAGTTAGGC  
 CAAATTGAAG GTTGGAGTT TTACATTGTG GNGAGTCTA AATTCATGCG TTTGGCAAGC ACCAAGGNCA TGGGGAAAGA  
 ATCTGGTATT T

SEQ ID NO:1033: (Length of Sequence = 372 Nucleotides)

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AGTGGCTTAC AAAACACAAA TTTATTATCT TACCATTCTG TGAGTCAAAA TTCCAAAATA GGTTGCTACTA GGCTAAAATG  
 AAGGACTGCA TTININCCCTG CAGGCTCCAG GAGAGATCTA TGCTTACTC TTINCGGCTT CTAAAGGCTG CCCACATTCC  
 TCGACTAGTG GCGTCCCTCC TTCATCTCTA AACCCAGCAA CAACAGGTTG AGTCCTCATG TCACATCTTT NITACCTTTC  
 TGTCATCTCA TCTCGCTGAC TGCTGCTGGG AAAAATTCTC CACTTTTAAG GGCTATCATG ATTAGACTAT GCCCACTAGA  
 TAATACAAGA TCTCAGATCC CTTAACTTCC ATCACATCTG CAAAAGTCGC TT

SEQ ID NO:1034: (Length of Sequence = 320 Nucleotides)

CGCGCCGCGA CGGACGCCCT CAACCGGCAA ATCCGCGAGG AGGTGGCGAG TGCACTGAGC AGCTCCTACA GGAATGANIT  
 CAGGGCATGG ACGGACATCA AGCCTGTNAA ACCAATAAAG GCCAAGCCCC AGTACAAGCC CCCAGATGAT AAGATGGTTC  
 ATGAGACCAG CTACAGTGCT CAGTTCAAAG GAGAGGCCAG CAAGCCAACA ACAGCTGACA ATAAGGTCTAT TGATCGCAGA  
 AGAWTACGCA GCCTCTACAG CGAACCCCTC AAGGAACCCC CAAAGGTGGA AAAACCTAGT KTTTCAGAGTT TCAAACCAAA

SEQ ID NO:1035: (Length of Sequence = 375 Nucleotides)

TTTTTTTTTT TCAGTGGAAA ATAACITINA TTGAGACCCC ACCAACTGCA AAANCTGTNC CTGGCATTAA GCTCCTTCTN  
 CCTTTGCAAT TCGGCTCTTC TTCAGTGGTC CCATGAATGC TTTCTNCTCC TCCATGGTCT GGAAGCGGCC ATGGCCAAAC  
 TTGGAGGTGG TGTCATGAA CTTAAGGTCA ATCTTCTCCA GAGCCCGCCG CTTCGTCTGC ACCAGCAAGG ACTTGGCGAG  
 GGTGAGCACC CGCTTCTTGG TTCCACCAC ACAGCCTTTC AGCATGACAA AGTCATTGGT CACTTCACCA TAGTGGACAA  
 AGCCACCAG AGGGTTGATG CTCTTGIMAG ATAGGTCATA GTCAGTGGAG GCATT

SEQ ID NO:1036: (Length of Sequence = 304 Nucleotides)

CCTATGCT TCTTCTTTT GCTTCTCTC AAGTAGAG TGACTTTTTT GAAGGTTAGC TTCTTCTAAG AGTTCATGC  
 TATNCTGGC TCTTACAATA GCTCATATC TCTNATTNC TAATTCATTG CACTTGTCTT GTAGCTCTCT GGTCTGTTTT  
 TCCAGATGTG TATTINCGN TCTNAATTGG TTGGCTTCTT GGATGTGCAC ACATAATCTT ATTTCTAATT GTTTTATACT  
 AGACTGTAAC TGCTGTAAAC GGCTATCTGA TGCTTCTCT CTINCATGGG CAGACACCAC ATCC

SEQ ID NO:1037: (Length of Sequence = 341 Nucleotides)

CTATGAGGAC CAGCAATTAG ATTTTATAGC AGTACTTCCC ATTAAAGTGA ATAACCAAAA TCACTTTAAG GTCAAGATCT  
 TAGTCAATAC ATTATGTAAA ANCATATACA ACAGACAATA CACCAGAAAC TAAATCTTTT GCAACCTTTT AAACCTATGA  
 TGAAAAACAT TAATGTCAGC TCTAAAAATG ATTAAGCAGT TTTTCAAAAA AAAATGTATA GAATACAGGA GCCAAAAACAT  
 TTANCAATTA CCTAAGTTG CTGACACAGA NTACTATTAA TAAATAATAC TGATCANNEN AAAGTAATCA ATTTGAAAGT  
 GGTGGGGGTA GAAGGACAAC A

SEQ ID NO:1038: (Length of Sequence = 281 Nucleotides)

GGAGGCTGAG GTGAGAGGNT CCCTTGGGCC CAGGAAGTCA AGGTTCGAGC AAACAGTGAT TGCACCACTA CACTCCAGCC  
 TGGGCAACAC AGCAAGATCC TGCTCAAAA AAAAAAAAAA ATATCAGTAT TGTTTTATTA ATTGTACAA ACACACTAAA  
 TAAATGTAAG ATGCCAACAC TAGGGGAAT AGGATNTGGN GTAAATGGGA ACTCTCTGNA TCATTTTTGC AACTTCTCTG  
 TACATCTTAA ACTATTTTAA ATGNTTCTAC AAAAGTTAAC A

SEQ ID NO:1039: (Length of Sequence = 246 Nucleotides)

CCAATGATGG CAAACATGAG GATGGCAAAG AAGAGAAGCA GCCAATCTG CAGGAGTGA ACCATGGCCT TCATGATGGA  
 CTTGAGCACC ACCTGCAAAC CTGGGGCCAG AACAGGGCAG GTCAGGAAGC AACGTGGGCA GGGTAGGGCA AGGAATTTTG

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TGGGGGCAGG GACAGANCAG CAGGAACCTA GCAGGGACAG CAAGGTGCTA AGCAGINAGT GCTTTCAAGG GCAAAGGTTA  
GAGCTG

SEQ ID NO:1040: (Length of Sequence = 399 Nucleotides)

GAGGTCAGA AGAGCTTAAG AAAATATAGG AGATACTACA GCATGTTTGG TTCATGACCG GAATGATTTA GTAAGAAGGA  
AAAGCCAATA ATGTAAGAAA GCGGATTGCA GGAGCAAAGA CTTTAAGGAA TAAAAAGNC AAAATGTGTT GTTCTCAGG  
GAAGTAATGA CAGGGGCTGA GCAGGAGCCA GGAAACCCAG CTTTATAGCTT CAGNTCTGCC TGACATTTAT TGGTCATGTG  
GCTCTGGGTG TATTCTCACT TCTCTCCCT AAATAGCAAG AAGGAAAAGC CTCTTGAGC CTCGTGTCTC TGCTTCTTC  
TGTAACATGG TTATGTTTCT GNTCCGCTTA GCTGGTAAAT TATAGAATCA COCTNGCTGG GGTCTTTTGG GGA CTGGCC

SEQ ID NO:1041: (Length of Sequence = 324 Nucleotides)

CCATAACAG TCCGTCACG ACAATGTTG TTACGCAGCA CATTTATGC AGTGTGTGAC CATAACGAT ACACAGAGGA  
AATTGAGGGC TTCTAGGAAA CCTTCTAAGG CTTTATCTCC CTAAGGGCAC CTGATGAGCC ATTCTTCACC CCTGCACG  
ACAGGNTCT CAACACCACC ACCAAGGCTA ACCGCTGTGC ACTCTGGGCC CTGGGTCTGC AGTAOCTGGC TCCCAAGCAC  
ACCAGCATCT GAAAACTTGN CATCCTTGCC GATNTTNOGG GGAGTATTGG TTGATTGCAG TGACAAATCG GCAGAAGTTC  
CGGG

SEQ ID NO:1042: (Length of Sequence = 212 Nucleotides)

ATCTGTTTCT CAGAGATGAC ACTGCCAACA ATCAGAGATT TGCATACAAT ACAGTTATGT ATTGGCTATT CACAATTAC  
AGTAGTGTTT TTCCCTCTGA AAAATATAAG TNCAAAAGCT AAGTAAACAA TNGGTACTG CCATTGGGN TTTTITACAT  
GGNCTTAGCT TAAAGAACTG GTCITTAGCA AATATTCAAC AGNTCAACCT GA

SEQ ID NO:1043: (Length of Sequence = 329 Nucleotides)

ACTTGGAGAA AGAAAAATTA GAGAATTCCA GATCCTTAGA ATGCAGATCA GATCCAGAAT CTCCTATCAA AAAACAAGT  
TTATCTCTTA CTCTTAACT TGGATACTA TATAGTAGAG ATCTAGACCT TGCTAAGAAA AAACATGCTT CCCTGAGGCA  
GACGGAGCTA TTCCAGATGC TGATAGANCC ACTTTAAATC ATGCAGATCA TTTCATCAA ANTAGTNCAG CAGCAAGATG  
AAGAGCGACG TCGGCAGCTG AGAGAGAGAG CTCGTGAGCT AATAGCAGAN GCTCGATCTG GAGTNAAGAT NTCAGAACTT  
CCCAGCTAT

SEQ ID NO:1044: (Length of Sequence = 285 Nucleotides)

GTGAAGCTG TTTTATTTT ACACCTTCT GTTTTAAAC ATAGGGACTG ACAGGGAGAC CCAGGGCTGC AATCTGGGTG  
GTGCTACATT TGTAGACAAG GACAACTTGC TGTATTTTAA CCCAGAAACA TTAGAAAGTT TGTCCTTGAA CTCTGGCTC  
AGATTTAGAT GCATCTTTGA AGTCTGATA TTTGGCTTAT CTGAAGCTTT GGGATTATCA TTTNCTAGTT ATGAAGGGAA  
TGAAAGTGT CATAACATTT TTGCAGGTG AAGGTAAAGT TGTG

SEQ ID NO:1045: (Length of Sequence = 317 Nucleotides)

TCGGTTACTG TAGTATGTGA GTATAGTTG AAGTCAGCTA GTGTATGCC TCCAGCTTGG TNCITTTTGC TCAGGATTGT  
CTGGCTATA CAAGGCTTC TTGATCCCA TATGAAATTT AAAGTAGTTT TTNCTAATTC TGTGAAGAAT GTCAATGGTA  
GTTTCATGGG TATAGTATTG AATCTATAAA TNATTTTGGG CAGTACGGNC ATTTTCAIGA TATTGATTCT NCCTATCCAT  
GATGATGGAA TCTTTTCCA TTTGTTTGGG NCTTCTCTTA TTTCTTGAG CAGTGGGTTT GTAGTTCTTG GACAAGA

SEQ ID NO:1046: (Length of Sequence = 316 Nucleotides)

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CCAGGTGCAA TCTCGGCTCA CTGCGACCTC TGCTCCGCG TAGTGGGACT CCAGCTGTGC ACCACCCAGT CAGCCCCACG  
CCCCCCTGC CAGGCGTGTG CACGGTTCAG CGTCACTTTA CAGATGAGGA AACTNAGTCT TTGGGAAGCT GACAAGGTGC  
CTGACACAGG CCAGGGCAGG GNCCACCTC ATGGGCTGTG CTGCAGCCTC TGCTCGTGG GTCACGGCAC CCCATCTACG  
AGGNGCCCT CAAGGATGCG CCGTCGAGTN CCCGGGGCCC TTGGCATGIN CCTGGCAGAG AAGGCAGCTC AGGGGT

SEQ ID NO:1047: (Length of Sequence = 261 Nucleotides)

CTTCTCAAA CTGGGTTC AGCTGGGTCT CAAACTCAGG CTCCAACCTG GTCTCAAACT CGGGCTCCAC CTGTGTCCTA  
AACTCGGGCT CCACCTCGGT CCCAACTCT GTCAACACCT CTTTNTAGGT CTCANTCTCC GACTCCTCCC AGCCAGCGGT  
GGTTGGCGT ATNAGGCCCC AGGGCTCTAT GGTAGTGCTC AGGGTGNGTG GCAGGGGCAG GGGGCAGCGT GGGAGGCACA  
GTGNGGGGG CCTAGGGTGG T

SEQ ID NO:1048: (Length of Sequence = 390 Nucleotides)

GAGAACAAAG AGAATGGAGG CCACATACAA TGGAGTAACA GAAGCTTTCC CTGTAGCTCA AGAACCAAGC CGAGAATCCA  
CACTCCTGA TTCACAGTTC AGTATTTTCG GCCACITTTAC TCAAAATATTT TTATAAATTA TTTTAAATC GGCAAAATAT  
TTAAATTTCA TCATTAAAT TTAATTTCT AGATGCCCTA GTGGCATCCA GAACACATAT TINGGGGAAA ATATTCTAAT  
TTTTTTAAAC AGAAAAAGCT AGGNNCAGAT GATGCATTAA AAAAGTAGAA CACAGAGCTC TTAATTTAGG AATGATCAAA  
ATAGGGTTGA TTCAACTATT ACCTCTCCT AGGGATTATG GATCAACCCC TAGCAGCAGN CAAAGTCACA

SEQ ID NO:1049: (Length of Sequence = 335 Nucleotides)

AACTCACAA GTAAAATAAT GCATATTTAA GGGAAATATT ATACAGACTT TTTACACAG AAGTACATAA TANGATTTTT  
TAAATCTAT TGCCATTCAT TTATTTTTCG AAAAAACGT ATAAATATGT CACCAGCTTT NCITTACTTA AAAAATTAA  
ATAAAGACA CCAGATGAAA ACTACCTTT GCTGCCATTT TTTTITAAGT TTTTGTAG GGGTTTTTA TTTTGGNGT  
TTTTTNCIT TTNCTGCTTA GAATTGGGT TCTAGGGAAG AAAAGCCCT GCATTAAAA CAGNCCATTT AAAAAAAAAA  
TTCAAAGTTC TGGAT

SEQ ID NO:1050: (Length of Sequence = 265 Nucleotides)

AAAGGGAGGG AGGGAGGGAT GTGGAAAATA TGCAAGATAA ATTAAATNCT TAGTTAAAA AAAAAAAG TTTACCAAC  
TGNTCTCAT TACTGAGAAG CCCCCACACT GCCCCCTGT GCATATTCCT AGTATTTTAT CCATGTCTG CTCTGTGTG  
CTGCCCTACA AAAAANCCCT CCCGGGGGGG AAAAAAANC AAAAAANCG TGTAGTGTGA ACTGCTGAAG AACTTAAATG  
TTCAAGNCA TCTTAAAGT CTAGG

SEQ ID NO:1051: (Length of Sequence = 298 Nucleotides)

ATTCTAAAA TGCTCTCAA TACTAATATT ATACATTCTC CCATTATCC TCAAAAAACC CATGAGACTG GTGATGTAAT  
TNCTGTGTC ATTCACAGC TGTGGCAGTC AGTCTAAAGA CCAAGTGATT TGCTCAAAGT CATGGAACAC TTAAATGSCA  
GAGCTAAGGC TTAAACCCAG AATTAAAAA TTTTTTINAG CTTCTNGTTT TTNCCATTAT ACCAGTTTGG CCTTCATTT  
TATTCATGG TTAAATTAAA TTATGGTAAC AAAGGGCCCC TGGTCACTTT GGACATTT

SEQ ID NO:1052: (Length of Sequence = 359 Nucleotides)

AAGGCAAACG TGGTACATCA TGACACCATG GGAATGACTC ATGCCAGCCA TAAAAAGAT GAGAATTCTG TCCAGAAATG  
GTTCTTCCG GTGGGTCTT GGTCTCGCTG ACTTCAAAAA TGAAAGCCAT GAACCTCGT GGTGAGTGT AACAGTTCTT  
TCAAAGATG TGTGTCGGA GTTNTTCCC TINCAGATG TTCCAATGT TATCCCAAGT TTCCTCCCT CTGGTGGGT

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CGTGGTCTTG CCTGATTNTC AGGAGTGGGA GCOGCAGAAC CTTTGCCCTGT GAAGTGTAA CAGNNTCTTT AAAAGGTGGG  
TGGCATCTGG GAGTTTGTTC CATTTCCTCC CCAGTGGGG

SEQ ID NO:1053: (Length of Sequence = 195 Nucleotides)

GTTCGAAAT TGTATTCCCA GTGTGGCAG GTGGGGTCCC AATGGGAGCT ATTTAGGTCA TGNAAGGTGG ATCCCTCATG  
AAATAGATTA ATGGCCCTCC CTTCAGGGT AAGTGNAAAT NCTCACNCTG TTAAGTCCC ACTGCAAGAA GGTGGTTGAC  
CAAAAAGAAG CCNCGTGCCT CCCCCTAACC CTGA

SEQ ID NO:1054: (Length of Sequence = 319 Nucleotides)

ACAAAACCAG ATGTTCTCAC AAGAGCCCT GCTTGAGAT CACTTACATA GTTTTGGGG AAGCCAAGAT CGAAGATTTA  
TCCAGCAAG TCACACTAG CAGCTGCTGC AGAAATCAA AGTTCAAGGT GCAAGCTGTC TCAACATTG CAAGCAAAAC  
ACACAGTACT TCCAACGTG ACAAGAGGAG GAGTGCAAGA GGAAGAGGTT CGCTGAAACA GGTGTTAGTA AGTTNAAGGT  
ACATAGANTT GGTTCATGTT CACAAGCAA TGIGTTCGAG GGNCAAGEN CAGTTCGAG CCTGTAAAT AACACAGT

SEQ ID NO:1055: (Length of Sequence = 205 Nucleotides)

AACTCAAATA GGAGCTAAAA AAAAAAAAAA GAATCAATGA AACAAAAAT TAATTTTTTG AAAAATAAA ATTGATAGCA  
CTAGCTAGAC TAACCAGCAA AAAAAGNTAG CAAGTACCTA AATGAAAANC TGNAATGNA AAAAGGAGGA CATTACAAA  
TNAACACAGG AAATACAAAA GTTCCATGCA GCGAATTAT TCAG

SEQ ID NO:1056: (Length of Sequence = 165 Nucleotides)

TGCAAAATA TGAATTCGCT TTCACCAGAT TGGTAGAATG TATAAGATGG TGCATGGGA AGCATTTAAT ACCCAACAAT  
ATCTGATTAC ATGAAATCA CAATGGCCTC CCTATCAAAT VAGTAGCGIT ACTGTTGAG CCTGVAAAAC TTTGAAAATA  
ACTTG

SEQ ID NO:1057: (Length of Sequence = 203 Nucleotides)

CTTTCATTCA AAACCCATCA CAGAAATGGA CAGCTGGGT CTGTAACAAA GCATTCAATG TTTAGAGCAT AGGTCAGTAA  
TTGTATATGA GAGCATACAC TGGCTACATA CAAATTAAT GTTCAGNCC ACAACTTTIN CAATGTTTAA AACAGGATNA  
AGCCTTCCCT GTGAAAAGCA GCACCTTGT GAACGGTCT TIG

SEQ ID NO:1058: (Length of Sequence = 201 Nucleotides)

AGTGCAATAT GCACATTACT AAGCACAAA AACAGTGTA ATTCAGAACT ACTTGCAAT TTTTATGTTA AATGCCAATG  
AATTATTATG CCTTAGTTTT ATGAACCTGN CINTCCTTG TGCAATTCCT TCCTTGCAA TGAATTGACT TNAACGCGT  
NAGTGAATAG CCTCAGNCTG TAGGATGTC TTTCAAATTT T

SEQ ID NO:1059: (Length of Sequence = 176 Nucleotides)

CCCACTGGC TACATACATG TTTTCCAAAT TAAGTTTTCT GATGGCTCAT CATTGCCAT CTCTCAAAT CCAGGTCCTT  
TTAAAAATCT ATGACCTTGG AATGAATGIG CCAGAATACC TGTATCCTGG AAGTCCATGC GAAINTTGGC NTCGACTGCC  
ATCCGCCATC TGCTGG

SEQ ID NO:1060: (Length of Sequence = 277 Nucleotides)

GTCAGAAGCA GTGTACAGT ATTACAGTCA GCCACAGAAG CTGTGTTGGG GGACAAGACC CAATCCTTCC CCACACCAGG  
CAAAGCAGTA TTGACATGA GTTGGCATGT GGCTGGGCC ACGTCTTAT CCCCAGGNC CTGNGGGGAG ACCACCTTTC

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TGAATGGTTA ACCAACCCTT AGGCTACCAC TCTGTATTTC ATCAGGGGTA GGGGTATTAA ACCCCACATG CAAGTAAGGA  
ACCCITGCCC CCAGTGTGCA AATGGGATGG GGATGCT

SEQ ID NO:1061: (Length of Sequence = 206 Nucleotides)

AGAAAGTAAG ATTCTCAGGG CAACAGTGTA CAGCAGAGTG GTTGCTCCAC AGACAGAGGA GGGCAGAGTG GCCCAGAGTA  
TCAGCGTACA GCAAAGTGGG TGTTCCTATC CACAGGGGCA GCGCTATCTC ATAGGANAGA ACAACCCTTA GGAAGGCAAG  
CGTCAGNCAG NCAGCAGTGN AACAGTCAAC AGTTAGCCAG TGTCAG

SEQ ID NO:1062: (Length of Sequence = 316 Nucleotides)

TINCCCTCAC AGAGTTTTAG TTAGAATCAC TTCTCTATT TCACAAATC CTCTTTTCT TTCTTTTAT TTTCTAAAGT  
GAATGTCCAA GCAAAAAGGA AGCAAAAATG GTCAAAGATC TCTCTTACAA TATAGTAATA AATTTATNCA AACAACTTGG  
AATTCACCCT GTGCATTGAA AATNCAACTC CACACTGCAA ATTATGGCAT TTTTCCCNC TCAAAGGAAT TAGTGAAGTC  
CATGGATGC ATTCATACTN CTGTTTAGN AATAAGGGAA ACCGCTTGT AAAAGINCAA CATGGCCTAG GAGTTA

SEQ ID NO:1063: (Length of Sequence = 314 Nucleotides)

ATGATCTGGT TTATGCTTCA GAAGAAGCAT AGTAGCTTCT ACAGAAAATA AATGATAGAA GGCAAAAGAG AAACATGGCG  
AGTATTCAC TCCAGTGTCT AGTCAAGAGA TTACAAGGGC CTGGCATGA GGACAACAGT AGAAATNGTT AAAAGTGTAC  
TGGATTGCAA AATATTACTT TTGGGCCAGG GCGCCGNGG . . . ACACGCCT ATTAATACCC AGCACTTTNT GGAGGTGCAG  
GGAGTTNCGA GTACCAGTCC TGGGCCAACA CGCNTGGAAA TCCTGTTGAA AAATATAAAA ATTAGCCGGG CCGT

SEQ ID NO:1064: (Length of Sequence = 322 Nucleotides)

GAAAGCATTT GAACTAAGTN TGTA AAAATG GCAGATAATA ATTAACACTT GGTAGCAAGA AACGCTTTCT GAAATACTGG  
GAACACTGAC TTGTTTCACT GTAACCTATC ACCTAGTGCT GTATCTGCCA TAGTGCTCAC AATTGCAACT TTATATCCAA  
CATGGGTGTT CCATTTCTAT TTGGATAAAA TTTACTGGAA ATATACTAGC AANGAAAAAC TGGTCTTAAA ATGGCAAAAG  
GCTCTGGCAC TAAATCACT GCTACTTAAC TTAGTTTACT AATTAACCTC CTAAATTATA GTTTTCCAAA TCCGCATGCA  
CG

SEQ ID NO:1065: (Length of Sequence = 297 Nucleotides)

CCCTGNCAAC TCCTGTCATG GACTGATGCT GGAAACTGGG TCAGGGAGCT CCAGGAGGAA CCAGACAGGN TCCTGTTAGC  
AGGCTCACCA CAAGTTCTAA AGGGCACCAG CCTTGAGAAG GGCAGTTGGG ATGTGGCCAA ATGTGAAGCC AGGTTTNGTG  
GGATCCTGAC TGTCCAGGT TACAAGTCC TGGCCACTCT GTGAACCTTG GGCAAGTTAA CTCCAACCT CTTTACAAGT  
TCCCTAATCT ATNAGGAAAC ANTITAGINAC ATGACCTTCA TGGGAATTTA TTTATGA

SEQ ID NO:1066: (Length of Sequence = 267 Nucleotides)

ACAATGGGAC TGTACAGCA GCCAGCTCCT CCTGACTGC TCCACAGGAA GAGCCATCAA CAAAGCCAAT CCTGGAGAT  
AGGCTCTGAA ACCAGGATAG AGACTCCTTC AATGGCTGCT GNTGGTTCCA CCATGTATCA TCCAGAGNAA TCACCCTGNG  
TGGGCATAGG TGGGCCTGGG AATCTAGGGC ACAGCAATTC CACACATCTT CACCTAGAAA CCTCCTTCT GSGTGGGCCT  
GCATGGTTTC ATGCTGTGAA ATCCCAG

SEQ ID NO:1067: (Length of Sequence = 220 Nucleotides)

AAAATGCAAT TGGTTTGTTA CTGAGTACTA TTCTGTTGGAA GACAGCATCC TGNACTCCCT CTCTACAGAA TATTGGGAGT  
AAAAATGAAT GTCATCCCCG GTGGGAAATA TTATTGGGGG TTGGAAGCAC AGAGCACAGG AAAAATTAG TNCAGGAAAC

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AGACACTAAG AGTGCCTGG GCAGGTCTGA CTGCAGGTGA TGCAACTTGC CAGCCGTGGT

SEQ ID NO:1068: (Length of Sequence = 412 Nucleotides)

TGGCCAGCAT CTGGGAACCT TGGGTGTGTG GACCAACTTC TTCCAACACG TGGCACTGA TGGCCGGGGC CCCAGCCAGG  
CCTGNCCTGA AGGGTCTTCC CGGNCOCGAG GGACTGTAGG GGGTCTCTAG GAAGCATCAC ATCAAGGTCC TCAGGTITAG  
TNCAGGNCAG CCCATTGACC CATTTNAGGG GACAGCTGGA GGAAGCCCG GAGTCCCTTG TTTCTTCAGC TGAG

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TGCCTCATGA AGATAATTTA ATGCTAGACT GATTTCTGCA GAGTAAAATC TGGCATGINC TTCAGGAAGT TTTCTTTGTC  
GCTGCATATG AACATTAGG TCTCCTCCAT TTACATACTC TATAACAAAG AACAACTGTC TTTCTGTCTG AAAGCAAGAA  
TGCAGCCTAA CAAGGAAAGG ATGATTGGAT GCCTGCTCAA ACACATGCTT CTCGTCTGT ACCCAATCAA TATCCTCATC  
ATCATTAACA AGCTCTTTT TCACAACITT CATTGCATAA ATACGATCTG TTTTTTTTAA TGAACCAAC AGTACTTTGG  
CATAACTTCC TCTCCTATT ACCCGGAGCA AATCAAAATC CTGAAGACCT AGACTGGATG AAGCTTTGCA CTTTCCCTGG  
NGTCATTGCC TC

SEQ ID NO:1070: (Length of Sequence = 358 Nucleotides)

GTGATTGTNC CACTGCACTC CAGGTTGGGT AATGCAGCGA GACTGCGTCT CAAAAATAA ATAAATAAA AAAAAAAAAA  
AAAAAAAAA AAAAAAAAAAG CACCACCGCA CTCCAGCCTG GGCAATAGAG TGAGAACCTG TTTTCCAAA AGAAAAATNT  
TAAAGANTG ATCTNGGCA GCGTGGAGG CTCATGCTTG NAATCCAGC ACTTTGGGNG GCAAGAACA GGTGGTTCAC  
TTGAGGNCAG GAGTTCGAGA CCAGCCTGGC CAACATAGCA AAACCCCAT CTNTACTAAA ATTACAAAA GTTAAGTGGG  
CATGGTGGTA CATGCCCTNG TAATCCAGT TACTTCCG

SEQ ID NO:1071: (Length of Sequence = 411 Nucleotides)

CTATTATGA ATTCTCGCAT TGGTTTCGAA AACTCAACAC AGTTAAATGA ACAGGAATG AAGGTGCATG ATGGATGCGT  
CCCTCATAGC ATTTAAATCT CTCCACTTG ATTAATAATT CCTAGTTCCT CTTCACTGAA TTGTTTAGAG TTTTINAGCA  
GCCTTCGCCC TGATTAAAC AATTAGCAT CAAAGATCCC CTGTGAATG AGAAATCAAT AATTGAGAAA CATGCAATGC  
TCTTAATTA CTTTTAGAAC AGTGAGAGAA CAAATATCT CAGGTTCAG AGGGCCCTGC CTGCTCTGCA CCGTGAAGTC  
ATTTCTGTGA GCTGCTGGAA TAAACTCAA GTAGGCAAC ACTATTTGGG GAATATCAAT GCAAGCTTTC AGTAAACACA  
CTGTAGGATT G

SEQ ID NO:1072: (Length of Sequence = 342 Nucleotides)

TCCCATTTTT ATAATTATG GAACATGAAA CTGTATTCT ATGAACTCAA TGATTTTTTT CCATAAAAT ATATGCTAAG  
AGAGTCACCA CAAACTATG AATTCCTCC CGAATTATTT TTGCTTCTTT GGAGCACCAT AGTCTTTGTT CAAATCACAA  
CATGAAACTG TTGCTGCAAT GCTAAAGATG TGAATCCACC ACTATCAATA CGGTCAGGGT AAAACCTGGA GCCACATGTT  
ATTCAAGTTA TTTTGTAT CTAAATGATG ACATGAAAT AAAATAGTAA GCCAATATTA AATTGTAGG CATAGTTGCC  
CCACCTNAAA AGTGTTTACA AA

SEQ ID NO:1073: (Length of Sequence = 217 Nucleotides)

GTTTTCTGTC CTGGCTAGGA TAATGCAAGC NCTTTTCAGA TGANTCAGAA TCGAAGAAA TACGCTGGTA AAACAGGACC  
TGATTTACCA GGNACTAAAC AATTACACTC CCATTTCCAT TGCTTTCAAT ATTTTCACAC GNTACACGAA CCTTTAAGAT  
GGAAAGGGAA AGCGATTTTT TTTCAACAA GTGGGCCACC AGATGAACCA AATTAGA

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SEQ ID NO:1074: (Length of Sequence = 379 Nucleotides)

GGTTAAATTT TCATCGGAAT GTATAAGCTT ATTTATTAGT GTATTTAATG GTTCATCAAT TGATAAAACA GGTGTAGCAA  
ATACATGCCT TCCTTTTGGG GGATGGGCCT GGTTAATCTC CAAATTTGGCC GTTTGGAACA ACTCATCAAT ACTGTACAAA  
GAAGGTACCA CTGGGTGGA ACITTCACIT TTTAACAAAA CTGGTTCATA TTTCTCACIT GCATAGGAAA TGGTCAAACC  
TTGAAGTGAA GCAGAGTGCA TATGAGAAGT AGGCGACACA TCAAAACTG GTACAGATGT AGAGTGCAGC ATGTTTTTAC  
TTGAAGCAGA ATTTGATACA ATGAGGATGC AACCATTGTA GANCTAAAT TATCAACTT

SEQ ID NO:1075: (Length of Sequence = 345 Nucleotides)

ATTAAGTTGA CAGTCCAATC AGAAATATTT AAACAAAGTT TCACTACTTA AACACCATCT AAATATACIT TTTGTTATAT  
TCCCAGCAGA AATTGATGGC AAGGAATCAT ATATCCATC AAAACCGTAT TTTTCCCCCT AAAAGGCAGT TTAGATGTC  
TCATTCTAGG NTTCATCT CTCTCCTCCA CCATTCATC TCCCAGAGTA CCTCTACAA TATCCCTGCT TACCAAGTGA  
NCTATTTGCT TTAACAATCT TTTGTGGGT AAGGAGATGC ATATGCCAAT GTGAAACTA TGGAGGGGGA CTCTGCCIT  
CAAAGGCTGA CTAGAAACCA TTGGA

SEQ ID NO:1076: (Length of Sequence = 286 Nucleotides)

TTTTTTTGA GATGGAGTCT CGCTCTGTCG CCCAGTGTGG AGTGCAGTGG CATGATCTCG GCTCACTGCA AGCNCGCCCT  
CCTGGGTTC TCCCATCTC CTGCCTCACC CTCCCAGTA GCTTGGACTA CAGGCGCTG CACCAACGCC CAGCTAATTT  
NTNMTGTG TGTTTTGGC AGAGACAGG TTTACCATG TTGGCCAGAA TGGTCTCTAT CTCTGACCT CGTGATCCAC  
CCGCTTGGC CTCCAAGGT GTGGGATTA CAGGCGTAA TACCG

SEQ ID NO:1077: (Length of Sequence = 366 Nucleotides)

TCACATAGT CACATTTTAC CCATGAAACC TTCTAAAT ACCTTTTGCA TTNTTGCCT ATCCTTCTAC ATCATCATA  
TTGTCAAT AAAGTCAT TTTTGGGTAA CATTTCAGAA ATTGGGATTC CTCITACAAT TGCTATCAGA CAGAAGCCAA  
TTATGATGTT GTCATTGCTT ACACATGGN AAATAACAAA ACTGCCAGCA TGACATTTGC ATATGACAGT CAACAGCCTG  
AAAGAAATTC CCAGAAATGA TACTGGAGCA TTCAATTCAC CCTCTAGGAN CCAATGGAC TNGGAAGGAA GTAGAAGATG  
GGGAATCCCT AAGCAGCAGT CAAAGTAGGC TGGCTTTTCA TAATTT

SEQ ID NO:1078: (Length of Sequence = 380 Nucleotides)

GTTAAGTGC GAAGATTTTA TTAGGCGGTA CAATTCCAAG GTGGTAAGGG TGAAAGGAAA GGCGAAGGCA GGCAAATACA  
TTATTGAGCT GAAAACACT TTACATTCAA GGACAGCTC CAGACAAGCC ATGTAGAACC AGCATGCCTT GGGACTGTNT  
GGATGGCAGG GAGACGAGT TCTATGCTGA CCCTTCATG CTTTCTSCCC CCTTTGGGA AAGTATGCCT CACGACCTC  
TAACTCTCCC ACTTCTCTGG GGGCAGCACC TGACCCCTCC CGGCAACTNC TAGGCAAGAG CATCTGTTC CTTCAAATTT  
YTCACCTGAG TCTGAGTCAG AGCATYCCAT CATCAGAGCC TCTGTCAAGG AGGCAGTGCT

SEQ ID NO:1079: (Length of Sequence = 439 Nucleotides)

CTTAAGTTAC TGAAATTGAA ACACCCCTTG TCCTTCTCGG CGGGGCTTC CTGGTCTGTC CTTTACTTGG CTTTTTCTCT  
TCCCGTCTTA GCTCACCCTT CTGTCAACC AGATTGAGTT GCTATAGCTT GATGCAGGGA CCCAGTGAAG TTTCTCCGTT  
AAAGATTGGG AGTCGTCGAA ATGTTTAGAT TCTTTTAGGA AAGGAATTAT TTTCCCCCTT TTTACAGGT AGTAACTTCT  
CCACAGAAGT GCCAATATGG CAAATTACA CAAGAAAACA GTATTGCAAT GNCACCATTA CATAAGGAAC ATTGAAGTGT  
TAGAGGAGTG CTCTTCCAAA CAAACAAAA ATGTCTCTAG GTTAGTTCAG AGCTTTCACA AGGTAAATAC CTTTCTGTAT  
TNAATCAGG GTAACCCCTT TCTGTATTG AGTGAGTG

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SEQ ID NO:1080: (Length of Sequence = 419 Nucleotides)

CTGAACCTCCC TGAAATAGG AAGTCTCAAT TAAAAATCA ATTTGTCATA GTCCACATAA AGATAATCAA TACATTTTGC  
TCTCAGTCCT TGGGATGGTT TTTGTAAATA ATATTATCIT GACAAAAACA AACAGGAAGA TCCCACCCCC AACACATACC  
ACATTCCAAT GTTACCTGGN ATTAAATAT ATACCAACAT GCATCTTTAG GTTACTCTGG TCCATGGTTT CCTCCAGTGG  
CAATGGGAAT TACAAAAATG TAAGACGTAA TAGATATATA ATTATCTTTT TNCCTAAATG AACTAGCCT TAAAACTGG  
TACATAATGG TTCCTGGGT CANTGATCAA AATTATGGAN GTACACTTAA CCTATCTTCC ATTGAGTGGC TTAAATGGG  
ACCTTAAACT GTGGACTCC

SEQ ID NO:1081: (Length of Sequence = 411 Nucleotides)

CAGCGTTTAA ACCAAGGCG CACTAAACCT CGTAAGCGCA TGANCAGATT TAAAGAGAAA GAAAACTCTG AGTGTGCCIT  
TAGGGTCTTA CTTCCTAGTG ACCCTGTGCA GGAGGGGGG GATGAGTTTC CAGAGCATAG AACTCCTTCA GCAAGCATAC  
TTGAGGAACC ACTGACAGAG CAAATCATG CTGACTGCTT AGATTGAGCT GGGCCACGGT TAAACGTTTG TNATAAATCC  
AGTGCCAGCA TTGGTGACAT GGAAAAGGAG CCAGGAATTC CCAGTTTGAC ACCACAGGCT GAGCTCCCTG AACCAGCTGT  
GCGGTGAGAG AAGAAACGCC TTAGGNAGCC AAGCAAAGTG GCTTTTGAA TATACAGAAG AATATGATCA GATATTTGCT  
CCCTAAGGAA A

SEQ ID NO:1082: (Length of Sequence = 350 Nucleotides)

CTGTGAGGGC ACAAGTGTAG GTATCTTINC AAGTTCTCTA GGTGATCTA GAATGCAGCA GGGTGTAGAT GCTCTGCCIT  
AGGGGTAGAG AGGTGGGAAC ACTGACAGGT TCTGCAAAC ATCTCTGAAC AGCTGCTGGT GTCTTTTCT GTACTTCAAG  
TTTCACGGCA CATCTGATAG CTGTCGAA AGGGAAGAGA GAATTACGTG GGCTAGGCTG GTTTGAAGGT TTGNTAAGN  
TTTGGCTTGA GCGACTTTAA CAGTTTAT TCAAAGTAAT TTGTGTTGT AGCCCCACTA AAGTAATTTT GGGCCAGNAA  
AGGTTCAAAA TACGGTTTTT CCTACTTAAG

SEQ ID NO:1083: (Length of Sequence = 430 Nucleotides)

GTGAAGTCCA CTGCTTATG GACAGCCCAT TTGCATGGG CCTGCGTGT GTTGAGCCC AGGGTATGTA AGGAAGGCTT  
CANAGGAGCT GCTGCTGCCA CAGGTGGTCA CCAGGGCAGA GGTACACTG ACATACCTCC AGACCAGCCC GCTCCACTGT  
GGACAGGGGC AAGTACATA CTGCTGTTT ACCATGGGT CAGGCAGAA CTTGTTTCAC GGGGTGCTTT GTGATGCCAA  
ATGGATATAG GTGGGACGTG CTGGCAGCAG CGGCCTCAGC GTCGAGCCAT CTCCCTCCC GTTCTGCTCC GGCCTGCTG  
TGGGCCTAAT GGTGGCACCG TTTAAGCANC TGCTGTGTG TCAGCCTGGG GGNCTGAGGG TTTCCATACA TGATCACTGG  
TTCTTACCCA AGGCCTTAAT TCCTNCCTGT

SEQ ID NO:1084: (Length of Sequence = 369 Nucleotides)

AATGGAAGAA GTGAAAAGA ACAACACAAA GAAATAAAG AAGTAACCTC TTTACCCAC TGAAATAATC TCTGAAAAG  
ATATTAGCAA TCATGCAGCT TATAAATATC TAAAGGGCTA GAATTGAGGA ATTTATAAGA NTAAATTTTT TTTTCAACAC  
ATAAAATACA ACATGGGAAA TAAGATGTTT TTTACTAACA GGCAACACT TGAGNGTCC TCTTCAAAGA CTACAGTGA  
TGAAAGACCA GTTATCCAAA GGAAACGGT AGTAGAAATA TAAAGTTAGT CCCACACAAA ATTAAATGG TGCTCAATGC  
AGATTATCTA TCATTANACC ATTTTAAAG GCAATTTNT ATTTAAAT

SEQ ID NO:1085: (Length of Sequence = 413 Nucleotides)

ATACCTTTNA GCTGGCATAA TTTAACGTC TAATTATCC TTAATCATAA GCTGTACGAT TCTATAAITA AAAAGTTAAT  
GCCTTCTTAA TGTCTATNCT AGTAGAAGAA TGATGAGAAA ATAATAGTAT AGATTAGTTT TGGTCTCTAC TCATTTTGCC

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TTCTGATTAT ATTACAAC TC CAGCTGGTGA CAAGATGGCT GTGTAAATCT TGAAATCACT GAGCATT CAT TTTAGCTTCT  
 CATTGAAAGG TAGATATTCA GTATGAATTG TAAACTGGCA TTAAGGGAGA AAGTAGGNAT AATCAAAC TT GATCTGAGAA  
 TTAAGTGTCTG GTGCAATTCC TCAATGCATA GTAATATCCT TATGANGATG CAGATGCAAA AGTGGGTTTT GGAGGTGGAT  
 AAGGAGGGCA GCT

SEQ ID NO:1086: (Length of Sequence = 277 Nucleotides)

TGGATAGCAT GAGGCAAATT GCCAGAAGAG AATTTCTTTC GCATCCTAGT AGAATAAATC CAAATTATCT TTGTGGTACT  
 GAGGATGCTT GGTTTAGCAC AGTGTAAGT TGTAACACTT TAACAGGCTA TTAATTCACA GTCATAAT CAATGCTTGC  
 CCGGAGTTTT GCTAGAAAAG GATGAGAAGG ATTAAGGTAA AAAAAAAAAA NAAAAAAAAA AAGATAAGGT TAACCAGATA  
 CATCTTAAGA GCTGATTGCT CTTCATTCCT TAACTCG

SEQ ID NO:1087: (Length of Sequence = 360 Nucleotides)

TTTTTTTTTT TTTTTTTGAG ACATTGTCTC ACTGCGTCCG CCAGGCTGGA GTGCAGTGGT GCAATCTTGG CTCAGTGCAA  
 CCTCTAAATC CCAGGTTCAA GCGATCCTCT CACCTCAGCC TCCGGAGGGC NTGGGATTAC AGGTGTGAGC CACCGCGCCC  
 GGCAGCATT TTTTTTAAAG ATCTGTGATA GTGCAATGTT TGCTAGTTCT TTAATACAGA CTATATTGTA TTCCATGTCA  
 GTTTTTTAAAG TTTATTTCCC TATTGATGGC ATTTAATTCC AACTTTTAGA TAAAAGGATG TACTGGACAT TTTTATAATT  
 TTTTGGGGG ACCATGTAAG AGTTTTTCTA GGGGGAATTC

SEQ ID NO:1088: (Length of Sequence = 209 Nucleotides)

CTGGGACCAG CTGGAACAGA AGTGGTAAAG GATAACTAGC TACCTGCACC GCCAGAGATC AGGNTCAGGG TGAAGCTGGT  
 TTCCAGCAG GCGAAGTGAA GGAAGTGGT TNGAAAGGAA GAGGAGGAGC AGGAGATGGT AGGTCCCTCG CCTNCTCCC  
 NINCTACCTT GGAAATATAA GTGTCAGGTT CATACTTAAC CACCCCTT

SEQ ID NO:1089: (Length of Sequence = 409 Nucleotides)

TTTGTCTCAC AGCTACATCT TCAGAGGTGA GAACCATGCA TGACACAGAG AAGATGCTCA CTGATGGATT TAATGAGTCA  
 AACATTGAAG AATCAATGAG TGCCGGAAT AAACAGGATA GGTGGCAGCA TAGCATGCCC TTAAGANCAT GGCTGTGGAT  
 TCAATCCCA GACCAATCAC TGANTTTCAA GCCACTTTC CTCTGTGAGC CTCTGTTTT TCATCTGTCA AGTGGCAATA  
 ACAATAAATG GTACGTGCTT CATAGGGGCA CCTTGAGGAT TAAAAGAGAG GGTTCATAA AATCAAGTAC TGATTTCAA  
 ACCTGGCACA TAGTAGGCAC TCAGCACATG GNCCTTATAT ACTINTGGC CAGCAGCGGC TGGGGCTCAT CCTCCCTGG  
 CTGGGTCCA

SEQ ID NO:1090: (Length of Sequence = 337 Nucleotides)

GAACCTNTCC CCATTGGAGA GGATGAGGAT GATGATCTGG ACCAGGAGAC ATTCAGCATA TGTAAGGAGA GGATGAGGCC  
 CGTNAAAAAG GCACTGAAAC AGCTCGACAA ACCTGACAAG GGGCTCAACG TGCAAGANCA GCTGGAACAC ACCCGGAAT  
 GCCTGCTGAA AATCGGAGAC CGGATAGCCG AGTGCCTTAA AGCCTACTCA GATCAGGAGC ACATCAAAC CTGGAGGAGG  
 AACCTATGGA TTTTGTGTTT CAAGTTTACA GAATTTAATG CTCGAAAAC GCATAAGTTA TNCAAGATGG CTCATAAGNA  
 AAGGTCTCAA GAAGAAG

SEQ ID NO:1091: (Length of Sequence = 411 Nucleotides)

CCACTACCAC AGGAAATCTC TATACCTTC TTGGCTTTTC CTTTTAAATGT AATTTTCTTA AAAGCTTCAA GATAATTTTT  
 AATCAGGCAT GCTGAAATCT ATCTAACCTA TTAGTCACTA ATTATATTCT TCAAGCCTAT ATATTAATGT TTCNCTGTT  
 GTAAATTCAT GATCATAAAG TTTTGGACCT GGCCATCAAT ACTAAAGCAC TGATATTTAG TTTTAGGTGA TACTTGGGCA

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TAAATACAAA CACGGGATAT ATTTNGTCAT AGAAAAAAT GTGTTACTGC ATTATTTTGC ACTTCTGAAG GACTGCAAAC  
 ATTTTTCAG CACAATAAGC AAATTCCTCT TTCAAAAAGG NATACTTTNG CACATATGIN AGGTTTGGAA AATGACTAGG  
 NCCCTAGGGA G

SEQ ID NO:1092: (Length of Sequence = 349 Nucleotides)

AAAGAAAATG CCTTGGGAAG ACAGATGCAT TTTTNCACAC TGGTGTGCA ATTGCTCAAA TATTTINAGG ATGAATATCC  
 TCACCTTGGG GGCAAGTTTT TAAGAGTGAA TTTGAATTAC TGGAGCAGTG AACAATTATT TAGAGTCTGG TATAAGTGAA  
 GAAAAGAATC ATGACCTGTA AGCTGTCTTG NAGGTACCAG CAACTGNCCT CTAAAATTTA TATGGAAAGG CAAAGGGGTT  
 AGAATAGCCA ACATAATACT GNAGAAGTTG GAAGACTCAC ACTATCCAAT TTCAAGGTTT ACTGTAAAGC TACAGTAACC  
 AAGGCAATGT GGCACCTGGT AAAAAGTAA

SEQ ID NO:1093: (Length of Sequence = 400 Nucleotides)

GGACCTTGTT TTACATCTCG GATTTTCCTT TTTACTTTCC TAATGATGTA ATTTAACINC TTCTGTATT TNCATATTT  
 CCTATAAAT GGTAGTTAGA TCTAAAAGCT TGATTTACTT ATTTAGATT TCTAGTCAAG GGTACTCAAT AGATTGTATT  
 TCCTTTGGC TCACACGGAG GTGCATAATG TCTGCCTGGC CTGTAGTGAT GCTAAGGTTG ATCATCTGT TCAGGTGGCA  
 TCAGTCTGTG ATAACCTCTT GTAAGAATCG TTCAATTAACC TTTCACTTAA TGGNTCCATT CATTCATGAT CTTTAATGA  
 ATCCCTGTTA TTTCAATTAGG GAATAGCAA ATAATGATT TCTAATCTG TNATTCCTTT CACATTTATT AACTGTAATT

SEQ ID NO:1094: (Length of Sequence = 414 Nucleotides)

GTCAGTNTTC CATAACTGTT TCCTGCTGAC AAAGGGGCG TGGTATGGT TCINTGGGTC TTGGCCTCTT GCTAGCTGTC  
 ACAGCAGGAG GGTTGGCTTT TGGATTGGTG AAAGTGGTAT CCAGCCAGGT CCAAGAGAGA CAGGGGCGG GTTTTNCCAA  
 TGCCAAATAT ACTTCAGCAG TAGAAGCCAC AAGATTACAT TATTAAATTG TCCCAAGAGT CCCCAGTGC AAACCCAGC  
 TGAACGCCAT TTAGTTATAT NCTGGTGGT TTTCTTCTG CAGGAATCA AACCAAGGTT TCTTATGTGT GCTTGAGTTG  
 GGGGCCAGAG TGACAACCTG TAGAAAACCTA TGTATTCC CAGCTANGAG AACAGAGGGG AGGGGTACAT GATAGTAGGG  
 AGTCAAGTTT ACAA

SEQ ID NO:1095: (Length of Sequence = 387 Nucleotides)

GATCTGGCAA CCAATTATGT AAATAGTCAT ATGAATCCTT CAGAATGGAT AACACAGCTT TNCCTGACTGG TGTGAAATAG  
 TTTTCAGGIG CTCATCTTTT ACTTCATTAG CTTATCTTAT ATCATTAGCT TATCCTCCAT TCAGGTATAA CAGATCTTTT  
 TTTCTGATA AATATGGCAG TTTAGGGAAA TAAACTATGG CATAATATGC TAGGCCATTC TTCTAGGCCA CGCTTCTTTG  
 ATTGTAACTT TAAACCTTT ATCAGAACCT AAACAACCTT TCAAAAGATC TATACATATT TNNATCCAAT GTTTAAGGCT  
 ATGAGTAATT CATTATGGTC ACTCTTCATT TTNTACCT GATAATGATC TCGNCAAAA TGTGAG

SEQ ID NO:1096: (Length of Sequence = 416 Nucleotides)

AACCTAAAGC TTTAGAATGA TTGAGGTAGC TCAGAGCAA AACCAAAAGG AAAGGTGATA TGTAGATGTC TGGGCACTCA  
 CATCATAGGT TTGGATAGCT AGTTTAGGAG TAAGTGAAAC ATTTTAGAAG AGCATTATTG TTAACCTTGA CAATAGGATG  
 GGAGATTCTT AACCCCCCTT GTAAATATGA CCGATTGATT CTAAGTTAAA ATACACCACA GTGACAGTGA TATCATCCCT  
 GTACATCCTC GCCAAGTCTT CTGSCAATGT CAGCATGGCC GNCAGCCGCT CTGCCTCCAT CTCCCATAC TCATTGTTCC  
 CGATGGCATG TCTGATCAGC CGGTGGCTG CATTTTGGTC AGCCTCGTGG AGCCCGCTGG CTTTCTCTG CAGCAGCAGG  
 CTCTGCAATG AGNCCC

SEQ ID NO:1097: (Length of Sequence = 406 Nucleotides)

CTGACCTCGT GATCCGCCCA CCTCGGCCTC CCGAAATGCT GGGATTACAG GCGTGAACCA CTGCGCCCGG CATGATTGGC  
ATTTTGGGCT AAATAGTTTC TGTCACAGG ACCGTCCTGT GCAGTGCAGG TCTTTTAGCA TCCTGGCCAC TCATAGTGCC  
CGTGGTTCTC AGTAGAAGCT GTAGAGGATG TTGGGAAATT GGGGTGGGT GGTACAGTG CCTGGCATCT GTCTCAGGCT  
AAGGCTTNG GAGGCTCAAG TGCAGAGTCG TATCTGGATG CCAGCAACAC CCTGTTGAGA AACTTTCTAC TATGGTATGC  
TCATCATTCT CTGAAGATGT CAGGGCCTGT TTGTTTGT TTGCTGTTCT CTCACTTTTG CCTTATAATC AGTTCTTCCT  
TGTTGG

SEQ ID NO:1098: (Length of Sequence = 326 Nucleotides)

GGCCCGCCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCGCGCCCGG CCATGTAACA ACTTTTATAA  
AGTTATGATG TGATGAGTTT TGGTGTAAAG TTTTCCCTC CTCTACCTAA AACCCITCAT GCCTTCCCAT TGCTCTTAGA  
AAACACTCCC CAATCTGAAA CATGACCAIT TTTGTTTTN ACACCCAGAT TGCTCCAGAC TTGGTCAGTT GGTGTCCCTC  
CAAGCTGGTG CTGGTGTCTT TCCGNCATNC CCTATTAGT TTTTGAGCAC CTGGACCACT AAGGTGTTC GTCTCACTTT  
GCACIT

SEQ ID NO:1099: (Length of Sequence = 342 Nucleotides)

GAAAACGAAC AAGTTTCAGC AGTCTAGCCT TTGGATGACC TATTTGAAAA CCACTGAAAG TCGTGGAGGA ATGGGCAAGA  
ACCACCTCAT GATTCTNCAG GCCATTGCTA ACGAACAGCT CATTGCTACA ACCAGTCCAG AGGTTTTATT CCCTCTACTC  
CGAGCAATGA AATAGACCTG AGTTATGCTT CCTTTCATTT AATTTCTGCA GATAAATAGT TTCTGAGCA ATGGATGCTA  
TGCTTGATA CCAGTCTCCA CTTTGACGC CGGAACCTGC TTGGGNCAC AGTTACAGAA AAAATGTAAA CTCAGAGTGA  
TCCTTGTTA TATTGCTATA GA

SEQ ID NO:1100: (Length of Sequence = 301 Nucleotides)

ATCGCTTGAG CCCAGGAGTT CGAGACCAGC CTGGGCAATG TGACAAAACC CAATCTCTAC AAAAAATACA AAAGANTTAG  
TCAGGTATGG TGGCGCATGA CTGCAGTCTC AGCTACTTGG TAGGCTGAGG TAAAAGGNTC ACCTGAGCCC GGAAGTAGA  
GGCAGAGTGA GCCATCATTG TGTGCCACTG GACTCCAGCA TAGGGAAGGS GACTGAGACC GTCTCAAAAA AATTAAATAG  
AAAGTCTTCT TTTTTTAAAA TNCCTCAATT CATGAGAAAA CTGCACTCAC ACATAGTGTG T

SEQ ID NO:1101: (Length of Sequence = 300 Nucleotides)

TTAAGTCAAA GGCTAGAAAT GATTAACTT AGTGAAGAAG ACATGTCAAA AGCGAGAGA GGCCAAAAGC TAGGCCTCTT  
ATGCCTAACA GTCAGAAATG CAAAAGNAAA ATTATTGAAG GAAATTAAAA GTGAAACAAC CTTATTGCTG ATATGCAGAC  
AGTTTTAATA TTCTGGATGG AAGATCAAAC CAGCCACATT TCCTTAAGTC AAAGCCTAAT CCAGAACAAA ATCCTAACTC  
TCTTCAATTC TTACGANGGC TGAGAGAGGT AAGGAAGTTG CAGAAAAGTT TTGAACTAGC

SEQ ID NO:1102: (Length of Sequence = 174 Nucleotides)

GAGATCGAGA CCATCCTGGC TAACACGGTG AAACCCCTC TCTACTAAAA ATCCAAAAAA ATTAGCCGGG CGTTGCGGCT  
GGCGCTTGIN GTCCAGNTA CTCGGAGGC TGAGGCAGGA GAATAGCGTG AACCTGNGN GGCGGNTTG CAGTGAGCCC  
GAGATCGGCG CACT

SEQ ID NO:1103: (Length of Sequence = 360 Nucleotides)

ACAAGGCTCT GCTATGTGC CCAAGCTGT CTCAACTCC TGGTCTCAAG CAATCCTTCT GCCCTGGCCC TCCCAAAGTT  
CTGGGTATTA CAGGTGTGAG CCAGCACTCC TGGCCCATCA CAGTCTTAAA ACCAAAAGTT CTGTGTCCGA GGAAAACAG

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GAGTGTATTGG TCACTCTATT TATGACTCAT AGCACTTACA GGCTACTTCG GCAGGGACTT NGGGTACCCC TGTTCITGGA  
TGGCACAATCA TTATCAGCAA CAGGAACAGT TTCTCTGAGC CCTGGGCCCT GGAGAATCTC TAGCTTAGCT ATTTTAGACT  
TGGGGTCAAA GAAGAGAGGC TCTTTGCCAA CTCAGCAACA

SEQ ID NO:1104: (Length of Sequence = 400 Nucleotides)

GGAAGCAAGA CAAAAAGGA CAGAAAAGCT GGTTTAGGTC TTCAGTATGT TTATTTGTCC CTCACATAGC GGCTTGATCT  
GTCTGCCTGT GTGTTACAT AGTTAACCAG AAACGCTAGG AGGAAGTTGT ACCAGTGGGA TACCTCCTTA GGTGCCAAG  
TTTTATTTTG AGAAATAATA TTACTTTCTT CTCTGAAAT AAAATAATAA TAATANGANT GAAACCCCA AACCACAGTG  
TGAGTCTCAG GTTAGCATTT GAAAACATCT CCAGAGACAT TGTATTCTCT CAGGAGGTTT CCCTGACTCC TTAAATGTGG  
CTGATGTTTC ATGTTAATT TATTTANITT TAATAAGGTA TGAGCAATCG AAGGGGCTGA TCATCTGAGG TTTTGTACCT

SEQ ID NO:1105: (Length of Sequence = 380 Nucleotides)

CCCAGTGCAG AGGGTGACCA AGCCTGGGAA GGCCCCAGGG GTCCAACACC AAAATTAAAG GTTTATTATA CACAAGAGGA  
CGTTCTGTCC CTCANAGTGG CTGGCCACCC TCCCCACTCT GGCCAAGGTC CTGCACAGAG GTTTGTCTC AAGGGTGACC  
CTTCTTGGCC GCCCAGAGCT AGACCTCCGG CGGAGAGGCA CGCAGTCCAT GCTGCTGGCA CAAGTCACTT GGCAGCTTNC  
TCAGCCACCG NTTTGGCATC TTGTCTTNA GGTAGCGGCC TTNTTGCCA TTCAGACTTG AGTTCAGCC ACTCATAGAA  
TGGGACGTCC ACTATCAGGA AGNCTGCAGC CACTTATGTG TCGCCGGGCC AGAACAAAGG

SEQ ID NO:1106: (Length of Sequence = 334 Nucleotides)

TGTATCTNIT TGANITCTAA ACCCTTGCTT TCCCCACTGC AAATGTGTTT GGCTAGAGAG CAGGCTATTA AGACATTCTA  
GCCAAGCCAA TTTCTTGAGA GTNCTGCAGG TACCAGGTGT TGCTGGAGCC CAGCATCTGC TCAGAGGAAG GCAGAGAGAC  
CCAGAGGAAC CCAGAATGAG ACACCTCATTT TTGCATCTC AGTTTCCAAA TTAATTTTNT AGCTCCTGGT TAGGACCCGA  
NTTNCAGAGA CCAGGCAGCT NTCCAACAAG AATGCTGACA GGTTCATGTG TCCTCTAGGG TAGCTGCTGN CTAAAGAATA  
TTTGATTTTT TGGG

SEQ ID NO:1107: (Length of Sequence = 346 Nucleotides)

CTCATTITAG TTTGAGTCAA TATCTGAGAA AAAAGAATG GAGTAAAGC ACAGAAAGCA AAACITAGCT TAGAAAATAT  
TTCCTAATTC AAAAAATGAA CAAGTCAGAT TCTGTAAAGA TATCCAGTGA AATCTTGAAG AAATATTGTA TTGATTATTA  
ATTAANCTGA TTGGAAGTG ATCTTGGGTT CACAATGAGG TTGTTGAACA AGTAGCATTT TCATACAATT GCAAACCAAT  
TCAATGTTTT TNCATACACT GTTTACATTT CTTTNCAAAA TTTGATTCTT TCTTCGTGAT CCTAGTCAAA TTCTGCCTTC  
TCAGTAAATC TTTATCAAGT TTGCAG

SEQ ID NO:1108: (Length of Sequence = 410 Nucleotides)

TCCTGGCGAC GTGGTCCCGG TAGGAGACTT AGACCTGAGC TGGATCTGTT GACCCCAAAT TGTGCTTTTC CCACCAAGAA  
GAAAGACAGG GAGAGAAACA TTAGTACAAG TNCTGAACTA AAATATAGCA GAGAAGAAAC ATAATCTCTG AAATCACACA  
GCTATTCGGT TTCAAAGCGT TCCTAGCGCC CAGCTCTCTT AACTCCTGGC CAGTGTCTT GACATTATGG TAATACATAA  
AGACITGTTT TCCGCTGGTG TGTGCTGTG GGAAGCCTCT GACTCACCTC CGTCTCCAG TAGCACCTG TGCAAGCCTT  
CCAATGTGCV CCTTATTGCG TGGCGCGGAA GATAATAGTT TGGATTNCTC TGCAAGTCAG ATAATAGCTG TATCCACITA  
CTTGGCACAT

SEQ ID NO:1109: (Length of Sequence = 352 Nucleotides)

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CGCTCGTINIG TOCCACACAA ATGTTTAAGA AGTCACTGCA ATGTACTCCC CGGCTCTGAT GAAAAGAAGC CCCTGGCACA  
 AAAGATTCCA GTGCCCTTGA AGAGGCTCCC TTCTCTCTGT GGGCTCTCCT AGAAAACCAG CGGGACGGCC TCCCTGCTGA  
 TACCGTCTPAT AACCTTAGGG GGGCCTGGG CAGGCAAACT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAATTC  
 AATGNCACAN CTACTGGTTA CCCCTTTTGA GGGGCATTTT TCCAGACAGA AGGCCCCCTTG AAGCCTAGGT AGGGCAGGNT  
 CAGAGATACA CCCGTNITTG TCTCGAAGGC TT

SEQ ID NO:1110: (Length of Sequence = 218 Nucleotides)

GTTTNTTCA TTTATTNCT CCCATAAAA CAGTATGTAC AAGGGTTTGA TTCAGGGGAG AGAAAGGATA TATGAAGACA  
 CATCTTCCC TCTTCTATTC TCTTACCTGG TTAGAAATAA ATAGGCATAT AGTCNGTPT ATTATGGGCA GGAAGGTAGG  
 TAAAGATCAC CTAAGTNCIT ATGGCGTGT GCGTTTGGCA CATGGAGAAT GAGTTTTT

SEQ ID NO:1111: (Length of Sequence = 211 Nucleotides)

TTTGCTTTAT GAAGAAGCTG GCCTAGGTAG GGTACAAAT GGGTTTTACT GAACITAAAC AGCTAATTGC TACATCTCTG  
 AAAATAATCA GAATAGAAAA ATAGATGGAA AAATTTCAAA CCCACTGTAA GAGACTAACA TAAATCCAAT TCCAAAAGCT  
 GTTAATCATA CCATCTAAAA AGAAACTGT CGACTAATCA TGTGTTTACA A

SEQ ID NO:1112: (Length of Sequence = 360 Nucleotides)

CCCTATAATA GTCCCGTGAA TAGGGCTAGC AGTGGGATTT TTGTGTATA GGCGAGGAAA TAAACACTCC TTTTGCTGAG  
 ACTAAAGAGC CAGGTTGGG TCTCTGGACA CATAGTGCAA TCAAGGGAGG CTTAAGACAG CAGAGGCCCT CAGAGAAGAC  
 GTTCATTCTC CCAGCTACTT GCTAAGCAG TNCCTGTGA TCTGGGCAGT CCTGGGCACA CCAGTGGTGA AAATACATGG  
 TCTGCGCTGC CTGCTGGAG CTTCTATTTT CTTNATGGGA GAATGCTGCT CCATTTTGT ATTGGAGGAA CTTTTTGCAA  
 GCAAGCCCTN TTGGGGGAAA AATGGCGGGC TAGAAACCTG

SEQ ID NO:1113: (Length of Sequence = 448 Nucleotides)

GCGGGTACTG CGTAGTGAT TAGAGTTTTT NCCCTGCCG AGGTGGGATA CACGGTAGCA TCATGGTCCA GGAGGTACAG  
 AAACATTCTG TACACACCTT TGINTCAGG TCGTTGAAGA GGACCCATGA CATGTTTGTG GCTGATAATG GAAAACCTGT  
 GCCTTTAGAT GAAGAGAGTC ACAAACGAAA AATGGCAATC AAGCTTGGTA ATGAGTATGG TCTGTINTG CATATGCCTA  
 CTTCAAAAGA AAATCTTAAA GAGAAGGGTC CTCAGANTGC AACGGGATTC ATATGTTTAT AAACAGTACC CTGCCAATCA  
 AGGACAAGAA GTTGAATACT TTGTGGCAGG TACACATCCA TACCCACCAG GACCTGGGGT TNNTTTTGAC AGCAGATACT  
 AAGTTCCNGA GGATGCCAG TGATCAGNTG CACAGTCCTA GCGGTGGC

SEQ ID NO:1114: (Length of Sequence = 268 Nucleotides)

GGCCGCCAGG TGGTGCCATG NCTTNTGNT CTGTGCGTCG GCGATGTGG TCATCAGCCT GAGACCCAGA TAGGCTGAAC  
 CCCGACTGAT GTAGGTTGG CACAGGAGGG ACGGAGATCT TGCTGGGCA GGACGCGCGG GCCGGAGCC CACTCCCTGG  
 CTTGGCAGGC ACCATCACCT CGTGACGGG CCCGNTATAC AGCCACGGG GCACACCGTG GNTTCINCGN CAGCCTGTG  
 CGAGCTTTGA TCCTCTTGTA GACAAAGT

SEQ ID NO:1115: (Length of Sequence = 342 Nucleotides)

ATCAGTGCCT TCTTCAGCTC TATCTGGAC ACCATCTTGA CCAAACACCA AGAAGGCATC TACAACACCA TCTGCCTGNN  
 AGTCTCTCTG GGCCTGCCAC TCTTGGTGAT CATCACACTC CTCTTCATCT GTTGCCATTG CTGCTGGAGC CCACCAGGCA  
 AGAGGGGCCA GCAGCCAGAG AAGAAAAAGA AGAAGAAGAA GAAGAAGGAT GAAGAAGACC TCTGGTTCTC TGCTCAACCC

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AAGCTTTCTC CAGATGGAGA AGAGACCATC ACTGCCGTGT TAGTTAGGCA GGAANGCAGA GGTGTTTCTT TCTGGGGCT  
AAAGNCTCCT TCTGACCACA CA

SEQ ID NO:1116: (Length of Sequence = 416 Nucleotides)

CACCTTTGGG AGGTAGGGAT CATAGTTCCA CTTCATTGAT GAGGAAACT GTAGTCAGA GATGGCATAC ACTGTCCAAG  
AACATGGTGG TGGATGGAAC CCAAACCCCA ACTTTTGCTC CCATGINCTC TGTCCACTGG CTATGGCTCT TGCCCCTGTG  
TACAGATACA GGCTCTGGAC AAGTTCACCA AATCCCTTAG GCCTCAGCCC CCTCATCTGC AGAATAGTGG CTGGGATTCC  
ACCATCTTCA AGGTCCCTGC CAGCTTINAT TTATTAAAT TTGGATTAT TAAGCAGGAA AAAAGTAAT GGGAGTTTGT  
GGGTACCAAT GGATTAAAGG GGGTNAATC TGGNGGCTNG TGAGTAAAT TAGGGTCCC AAATGG

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AAGGACCGGG ATTCTGATGA AGCOGTGTTT CTCCTGCCT GAAGTTTCCC TTTGGAGTTC CAAAGTAAAG GACACATAAG  
CAACACTTCC AAAACAAGG GAACAAGGTG GTTTATTGTA AAAACAGGAA ATGGTGCAAG TCATTGAGAA CTATTTTAAT  
GCAGCTATGA AAAGGGAAAA AAGTGCCAG TTCTTGATT CTAGATACT GAAGAGGACG TAGCATTICA TTATCAAT  
ATAAGGAAAA TTATTCACCA TTTTGAAGCT CACCTAGAC TATGAAAT ATATTCACTG CAGAGCAAT ACTTCTGTCA  
TTACCTGAAG TGATCAGTAT CTATCTTCT TGTATAGCA TGATCTCTC AAAAAGGCCT CCACTCCTTT CCTCACATC  
TGTTGTCATC ATGATT

SEQ ID NO:1118: (Length of Sequence = 379 Nucleotides)

GACAGCAGCG TGTCCAGGC GGCTGTGGAG GTGTGCGGA AGCTGAAGGA CCTAACTGC CCCTCTCTG AGGGTCTGTA  
TATCAGAG CCAAGACAA TTCAGGAAGT GCTGTGCAGC CCTCAGAGT ACCGCTGGA GATCTAGAG TGGATGTGTA  
CCCGGTCTG GCCCTCACTG CAGGACAGGT TCAGCTCACT GAAAGGGGTC CCAACAGAGG TGAAGATCCA AGAAATGACG  
AAGCTGGGCC ACGAGCTGAT GCTGTGTGCG CCAGATGACC AGGAGCTCT CAAGGGCTGT GCCTGCGGCC CAGAAGCAAG  
CTACACTTCA TGGACCAGTT GCTCGATACC ATCCGGAGGC CTGACCAATTG GGTGCTCCA

SEQ ID NO:1119: (Length of Sequence = 233 Nucleotides)

CAATATTCAA GAGTCTTTAT TGAAGACTTG AGATGGGACT TCCAACCTAG AGGATGTGG AATCCAGCT CAAATGATAC  
AGGATAAAGT GGGATGGGCT AGGATGGACA GGCTGTGGAT ATGGGAGTCA TGGGTCAAAG TCTTATCCA GATGGCTCCA  
GGTACAGTGG GCTTCTGGG CTGGAAGCTG GGTCTCCCC ACTTCATTCT GCTCAAAGCT TCTTGAAGGA GCT

SEQ ID NO:1120: (Length of Sequence = 325 Nucleotides)

GAAAAACAA CCATACCTT NCTTTTGAGG AAAACTTACA AACTTTATAA AGAATAAACA TGAATCINCT TAGAAAGTTC  
CAAGATAACA TACACAACCTG ATCACCCTCT TCATATATAG GCACCACACA CATAAAGATG TAGCCTAAAT CACAATCACT  
TCTACCCAGG GATGGAGATA GGAATTTACA TTCTTGACTT CATTAAGTCT CTAATTGGC AAAACCTCC AAGCCTTTTA  
TACACATGCT GCGTGTAGGC CAGATCTCAC TCATTCTTAT AATTGTGCAA ATAATATGGA GACCAAAGG GCAGGGTTTT  
CAATT

SEQ ID NO:1121: (Length of Sequence = 161 Nucleotides)

ATTAGTATTT TTGTCTGAT GTCTAGCAC TGTTCAACAA CAAATTTTNC TAGTCTTGT TAATTTINAT TTGTATACA  
ATGGAAGCAC AATGTTATAA GGAAAGGTAA TTTTAAGCTA ACAACCACTG CACAGCCTCA GGTTTTAAAT TACAACCACA  
G

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SEQ ID NO:1122: (Length of Sequence = 181 Nucleotides)

CATCTTTTTA CATCAAAGTA CTACCAAGTA AAGAAITTTAA AAATTACTTG TCTAGTCATG ATATATTTTC CTNCTGCTGC  
 TGA AAAATCC CTGTCTTATT ATTTCAATG CTTTATCAT TCATTTGATG ACACTGACAG CAACTTGCTG AACAAGTTTA  
 AGAATAGCTG ATATTTACTG A

SEQ ID NO:1123: (Length of Sequence = 174 Nucleotides)

CCCTAGAGTT AAATTTCAAC CATGAAACAT CAGCCACATG TCATATCAAT TCAAGTGTGT AACATTGATA TAATCGGGTA  
 CACCACAGCA GCACTGACAG AAACAGAAAT GATTGAGAGA AAGCCAATTA AACAGCCAG GGGATAAAGC AGATCTGTAT  
 GACATTAGCT TTTT

SEQ ID NO:1124: (Length of Sequence = 232 Nucleotides)

CTTTTAGCAG AGACGGGGT TCACCATGTT GGGCAGGATG GTCTCTTGAC CTGCTGATCC ACCCGCCTCG GCCTCTCCAA  
 GTGCTGAGAT TACAGGCATG AGCCACGCG CCTGGCCAG GGAAGGCATT TTNAAGAAA TAATAGTTGA ATTGAGATCT  
 GATAAAAGAA GTAGGAGCAA AATNGGGGG GTGCAGTTTT CCAAGAAGAG AAGACAGTAC ATATAAAGGG CT

SEQ ID NO:1125: (Length of Sequence = 233 Nucleotides)

GATACTATGG GTTCAGTGAC ATAGAGACAC AATTGAATTA GCAATGAGCT TCACTCAGGA GCCAGAGAAT GGGTTTNT  
 CTAAGAGATG TTTTAAGTAA CATTTAAATG GCACTGCTGA TTGATACCAG CATCAGGAAG CTGAGGACAA GAGCTCTCTG  
 AGAAGGAAGT TGCCATATTA CAGAAGTGAG GTGACCAAGC ACTTNTTGTA GGTCTGTACA TTTAGACATT AAT

SEQ ID NO:1126: (Length of Sequence = 258 Nucleotides)

TTTTTTTTTT TCCTAGGGGC CGCAGACGG CTAATTTATT ATAATTCCTC CGCCGAGTT GCCCTCTGGC GCCA...JGCG  
 AGAACGGAGC GCCCGGGATG CAGGAGGAGA GCCTGCAGGG CTCCTTGGGT AGAACTGCAC TTCAGCAATA ATGGGAACGG  
 GGGCAGCGTT CCAGCCTCGG TTTCTATTTA TAATGGAGAC ATGGAAAAAA TACTGCTGGA CGCAGAGCAT GAGTCTGGAC  
 GGATTAGCTC CAAGAGCTCT CACT

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GTGTGAATAG GCAAGCACTT TGTGTGTGT ACTAAGGAAC TCAAAATGAT AGGCTTTTTG TCACCATGTG CTTCCAGNT  
 CTCTGTGCA TGAGCAGAGA TAGAGGATCT TGACAAACA ATTAAATGCT CTAGCCATAA GTAGTGCAAG TTTCCNTTGC  
 TTGAAATTTA CTGCTGATAG CCACTTGGNC ACACCTTACT TCCAGAGGCT AGGAAGTACA GTTTTCCAC AGTCTAAGAA  
 TGAAAGAGNA TTAACCACAG TAATGCATAG CACTCATACC ATGGATGACT GGATAATTTT AAAAGAATGG GAATATGCAA  
 G

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ACAGCTCAAT GACTTATCAC AAAGCAAAGC CCCAAGAAGT CACCACCCAG CTCCAGAAAT AACACATTGA AAAGCTAGAA  
 AAATCTCAAA TTGACATCCT AACACCACAA CTAAAGGNTC TAGAGAACCA AGAGTAAACA AACCACAAAG CTAGCAGAAG  
 ACAAGAAATA ACCAAGCTCA GAGCAGAACT GAAGGCAATA AAGACACAAA AAACCTTTAA AAATAGTCAA TGAATCCAGG  
 AGCTGTTTTT TTGAAAAA

SEQ ID NO:1129: (Length of Sequence = 163 Nucleotides)

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CAGTGGTACA GCAGCAGCAG ACACGCATCG CAGAGCTGGA GAAGACGTCA GCTGAACACA AACACCAGCT GGCGGAGAGA  
AGCAAGACAT CCANCTGCTA AAGGCATACA TGCATGCAAT CCGCAGTGTC AACCCCAACC TTCAGAACCT GGAGGAGACA  
ATT

SEQ ID NO:1130: (Length of Sequence = 382 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTACGTG TCAAACAGCA ATGTTTAGTT GTACAACACA TAAAGTCTAG  
CAACAATTAC AGGNCCAGTT TGAGTGTCTG TTGCTTGTG TTCAATTGGG AAATTAACT GTAATGTCAC CGTAAGATTG  
GCTGGGACTG GTAACATTTA AGAAACGGGT TGINCTGCA TCCCCTAGGC GTGGGCTCT TGCTCCATCA GGACTTGGTT  
GTAGATGAAT GGGCCACAAG TCACCAGCCT TTGAGCAAGT TGTGTCCAGG TGGAGACAGG AAGAGGGTGG GCAAAGGGGA  
ATTCTATAAA GACACAGTGT NTGGGGCAGT GGCAGTCAAC ATTCGCAAAC ATTCATGCAT CT

SEQ ID NO:1131: (Length of Sequence = 406 Nucleotides)

ATGCTAATTC AGGCTCCACA GATAGTCTG GTGATGGGGT TACATTTCCA TTTAAACCAG AATCCTGGAA GCCTACTGAT  
ACTGAAGGTA AGAAGCAGTA TGACAGGGAG TTTCTNCTGG ACTTCCAGTT CATGCCTGCC TGTATACAAA AACCAGAGGG  
CCTGCCTCCT ATCAGTNATG TGGTCTTGA CAAGATCAAC CAACCCAAAT TGCCAATGCG AACTCTGGNT CCTCGAATTT  
TGCTTCGAGG ACCAGACTTT ACACCAGCCT TTNCTGATTT TGAAGGCAG ACACCTGGTG GAAGAGGCGT ACCTTTTTTG  
AATGTTGGGT CACGAAGATC TCAACCTGEN CAAAGAAGAG AACCCAGAAA GATCATCACA GTTCTGTAAA AGAAGGTGTA  
CACCTG

SEQ ID NO:1132: (Length of Sequence = 400 Nucleotides)

ATTTTGGTT ACTTCAGGCA GGAGGGTAGA CATAGCACTT ATCTGGATTG GATGTAGCCA CAGGATTAGA ATTGTGGGT  
CATAAAATAT GTACATGTTT AGCTTTAGTA GATCTTGCTT AGAGTTTAAA AAATTAAAAA TTAAAATATT TTTTAAATTA  
CAATAAATTC AGCTAATTTT AATTTTAGAT AATTTTATA ATGTAGTTGA TCTTGGTTTT AACCAGAGCA TGINGCTGGA  
TTTNTCTCCC CAATCGAACA CAGTAGAGAG AGAAGGTGGC GGGTCTTAG TGATACCATG CACTTTTTTT TAGAACTTCA  
GTCTGTATC CCTTCATTTA CAATGTATGA TGAAAAATAC TAAAGAAGGG AINGTGGTGG TGGTGAGGGA GGCAGGAGAG

SEQ ID NO:1133: (Length of Sequence = 347 Nucleotides)

CCCAGGGCGC GCCATCCATG GACGAGCTCA TCCAGCAGAG CCAGTGAAC CTCCAGCAGC AGGAGCAGCA CTGCTGGCG  
CTCAGACAGG AGCAAGTGAC AGGGGCGTG GCCCAGCGG TGGAGCAGCA GATGCAGAAG CTCTGGAGG AGACCCAGCT  
AGACATGAAC GATTTTAAAC ACCTCCTGCA GCCATCATC GACACGTGCA CCAAGGACGC CATCTCGGCC GGAAGAAGT  
GGNTGTTTCA CAATGCCAAG TCCCGCGCG ACTGTGAGCT GATGGCCGNN CACCTCCGGA ACCGCATCAC GGCINATGGG  
GGCACACTTC GAGCTGCGGC TGCACCT

SEQ ID NO:1134: (Length of Sequence = 389 Nucleotides)

GGTCCAGGCC TGCAAGACTT GCCTAGTGAG AAGATATAGG AATGGGAACC CAGGTAACAG TCTGGCCACT TTNCCATAGG  
GCTGCTGCAG TATGCCCAGG GCGCGCTCCA GTCTCTAGTA GCCTCANATT TTCCAGTACC TGGAGTTATC ATCAGTGAAG  
CCTGTGAAAC AGCAAAGATG GCAGCCTACC GCTCCCTTTG GAAGCTTTGC CCTAGGGAGG TATGAATGAN CTINTTGCTG  
GCCCAAACAC ACCTGTAGGA GGTGGCTNGA GACCCAGTT TGGAGGTTTT GCCAGTGAG GAGGAATGGC ATTGGGAAAG  
TGCTTAAAAA AGCAGTCTGG GCCTCATTTT TATAGAGCAG CTGTGCTAAT GCTGAGGGGT CCACATCA

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SEQ ID NO:1135: (Length of Sequence = 402 Nucleotides)

GCAGAGGCTT AAAGAGTGCT TATTCACTGA GGCTTGCCCT TNCITACTCC TTCCTGGGAA CCCATTGGC AACAAAGTGAA  
GAAACCTAGG CCAGCCTNCT TGAAGATGAG GGACCAACGG AGAGAGAGGC TCTGCTGTCC TAGCCCTCCC ACAGAATAAG  
TAAGCCTAGC CAACACCACG TGGAGCAGAG ATGAACCATC TCAGTGTAGC CCAGCCCAA TTGCTGACCA AAAGAATTGG  
GAACAAATAA ATAATTATTG TTTTAAGCTA CTGTGTTTCT GGGTGGTTTT GTATATAATA GTAGCTACCT GATACATTGG  
GATGACCCCA ATTACTTGAA CTTCTCTTAG GCCTGTTTTA TCAGGTGCAA ATAGGGGATA ATTTTAGTAA TTINGGGTTG  
CT

SEQ ID NO:1136: (Length of Sequence = 381 Nucleotides)

CAGGTGCGAG CCACCACGCC CAACCCAGAA CTCITTTTAT TTTCGAAAAT TGAAATTCTA CCCATTAAAT AGCAACTCTN  
CTTTTCCCTT CTCCTCCCAAG CCCTTGSCAA CTGCTTTTCC ATTTCTATGA CAATCTCTAC TCTAGATACC TCATAGAGGG  
TGAATCATAC AGTATTTGTC CTTTTATGAC TGGCTTATTT CACTTAGCTG CTATATTAT AATACCAGCT TTCTGGGGAT  
ATAATTCACA AACTGCAGAA TTGAATGGTT TTNAGTCTAT TCACATCGGA TATGTTTTTG AAGAGACAGT AAAACCAATC  
CTTTTTCTCT TAGGTTCTCA GACACACACA TGCTTCTTTA TCTGGCAAGT CCCGTTATAA A

SEQ ID NO:1137: (Length of Sequence = 325 Nucleotides)

TATTTTTTGT ATAGACAGGG TCTTGTTATG TTGCCCGAC TGGTCTCGAA CCCCTAGTCT CAAGCCATCC CCTTGCCCTG  
GCCTTCCATT CCTCTACTTT ATACCACGGT TATTACCAA GCTTGCTTTT GTTCAGTGTA CTTCCTCATG GAAAAACTGA  
GGTGATATTT ACCCTGGTTT TTCTACCAGT GTGTAAGTGT CGCTAGTACC AGCTCAAAAA ATAAGAAATG AATAAATGAG  
TGATGACTAT CACTATGTTG CTCAGGCTGG ACTTGAACCC CTGGGTCCA GTGATCCTCC CGCTCAGCC TTCCAAGTAG  
CTGGG

SEQ ID NO:1138: (Length of Sequence = 422 Nucleotides)

CAACACACAT TAGCCTTAAC AACAAAGAGC TAATCTTATG TAAAGAACTC TTACAATTCA GAAAGAAAAA GATCCTAGTG  
AAAATGTGGG CAAGAGATAG CAAAAACCA GCCATATGAT AATAANTAGT AATAAGTGAA TCTGAATGAT GTTATCTNCT  
TTTGTCATTT TAGAAATACA AATAAAAATG ATGATGAATG CNCITGCTTA CTAAATTAGC AAAANCTGGG AAAAGATGAT  
GATATTCAGG GTCAGATAAA GGGAAAAGGG TGCCCTTCTA TTGCAGTTTG GAAAGTAAAT TGGCACTGAC TTTTAGTGGG  
GATAGTCTTG TAATATGGGT CAAANGICTT CAAATCGTGT CCACATTTTG GGGCCTGCAA TTCCACTTCT AGGGATTTAT  
TCTAAGGAAG TACCTAAAAA AT

SEQ ID NO:1139: (Length of Sequence = 367 Nucleotides)

ATACCGAGAA GCATGCAAGC GGTGGCTCCA CGTCCACAT CCATCCCCAA GCTGCTCCTG TTGTCTGCAG ACACGTTTTG  
GATACACTCA TTCAATTGGC CAAGGTATTT CCCAGCCACT TCACACAGCA GCGGACCAA GAAACAACT GTGAGAGTNA  
TOGGGAAAGG GGCAATAAGG CCTGTAGCCC ATGCTCCTCA CAGTCTTCCA GCAGTGGCAT TTGCACAGAC TTCTGGGACT  
TATTGGTAAA ACTGGACAAC ATGANITGNA GCGGAAAGG CAAAGAACTC CGTGGAAATC AGTGCCAGTG ANGCGCTGGC  
GGTGAGGGGG TAAACCTTTT NCATACAGCC TTCGAGGCT CTCCACT

SEQ ID NO:1140: (Length of Sequence = 412 Nucleotides)

ATCCAAAGGA TATAGGCAAG CATCAGATAC AGCCAAAGCA TTCTTTTCTT AAAAGAGTCT GAACGCATCT NATGCAACAC  
CCAAAGTAT CCTTTNCTC CTCGTTACAG TATGTTTTGG CTTTGGATAA AATGATTAGT TATTGAACAA TATATGGAGA  
AATATCTTAC AAAAGGAAGT CATTTCCATT TTCTAACATC TTTTACATTG CACTAATTAC ATGGTTTAAA TGAATATCCC  
TAATCTTCAT CCAACTACAC CCCATGAATT TNAGGTTTTAT TTAATCAACC TAGTTAGACC AGATATATCC TTCTAAAATC

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ATTGTAGAT AGAGGATTCT CCTTTTGCT AGTAAATACC ATTAACATAT TTNCAGANGG CCTGGTCTAG GGTCAATTAT  
TCCAGGCGCT CT

SEQ ID NO:1141: (Length of Sequence = 410 Nucleotides)

GTTAACCCTGT GCGCGCTCC GGGTATCCGG CGCCTGANGT TTTAGCTGCG GTGGCGGCGG CAGTCGGGAC CGACTNAAGA  
TGTCATTGT CAGAGTGAAC CGCTGTGGTC CCGANTTGG TGTAAGAAAG ACACCGAAAG TAAAGAAGAA GAAAACCTCA  
GTGAAACAAG AATGGGATAA TACCGTACT GATCTAACCG TTCATCGGGC AACTCCTGAA GATCTGGTAC GCCGTCATGA  
AATACACAAA TCGAAGAATA GAGCATTAGT ACCTGGGAA CTCCAAGAAA AAGCTTTGAA GAGAAAATGG AGGAAGCAGA  
AACCAGNAAC TTAAATCTT GAGAAAAGAA GATTNGTCTA TCATGAAGGA GGNITCTTC TGATCAATAC CAGATGCAAA  
GATGTGTGG

SEQ ID NO:1142: (Length of Sequence = 392 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTCCNGGG ATTGAATGTC TTTATTAAAT AAACGAGTAA ATGGTAGCAC AAATCACCAT  
CAATATTTTT GGAAGGATTG GGGACAAGAT GTGAGTCAG AATATAATIN TCCATTTAG GGTCTCAATG TAGCTGAAGA  
ACTGTGCCCA CTGATCAGTA TTACGTATTG CAAATGCAGG AGGTAAGGCT AAAATAGGAC TTATGCCGTT CAGAAGATTG  
ANITTGAAAC CTTAAAACT ATCATAATAG TAGGAATGCA TGTTAAGATT TGATAACTTT CTTTAGCTAG AGTTTTCAC  
CCACAGTAG GAGCAAAGTT GTAAAGTGAG TAGGTNTGAA GAAGGGACAC TCTTTTGAGA AAAGAAATIN GC

SEQ ID NO:1143: (Length of Sequence = 200 Nucleotides)

ACTTCCTCTC TCCGGCATC TGCTATAAAA ATAAGAAGGA GCAATATTC TTGCCTCTTT TTATCACTG ANCTGAAAAC  
CCATTGTAAC TGCCATGAAA ATAAGCACTG GTCCATGAGA CCAATGCCCA GAAAATTCAG GCTAAGATTG CTGGAAGTG  
GGCTGTGGC ATTATTTAAA ACACACACAC AAAATTTACC

SEQ ID NO:1144: (Length of Sequence = 333 Nucleotides)

AACAGAAGCA TGTATTTCA TTCCATTCC CAGAAAGGA GTTAATGAAG ATAAAAATTT ATTTTTTAAG GTCTTTATTG  
AGAGAAACTT TGTTTTCTGA TATGAATAT TGCAGATGT TTTATAAATA CTTTCATTAA AATGATGTA ACAGTAGTAC  
CCAACACTGT AAACCTAGT AAAATAGTAA ATGATTCTTT TATTACTAAG ACTGTATGC ATTCTGAAGC AGFTGGCTTT  
TTTTTAACCA TAGGAAGTCA TTTCCCTCTA GTCCTTCCC TTCTACTCTC CTGCTCAGAC CATTAGTAGG TACTTTGTTA  
AATAAAAAAC TAG

SEQ ID NO:1145: (Length of Sequence = 225 Nucleotides)

TGGGTTTCTG ATCCGAGAAA AATTGAAAGA CAAACATGGC TGGGGGAAGC AAAACGCTGA CACACAATTC AGGTGGCCCA  
GCAGTGCTGA CCTGCAATCC ACCCCACCCC AAGGCAGCCC TTTCAATCCA AAGTGGACAG AGTGGGCTT ATCCAGANT  
CACTCAGGAA GCTTCTTCAA ACATATGACT GCCACACCCG CCCCCAAGGT TCAGAAACAT CTTCG

SEQ ID NO:1146: (Length of Sequence = 223 Nucleotides)

AAGGNACAAT ATTATTTCAA ATAATTTAGA TTTGGAAGAC ATCAATGACT TTGGAGATGA TGGGTCTTGG TATATTTACTA  
AGGTIACCAC AACTCAGNT GGCAATTACA CCTGCTATGC AGATGGCTAT NAACAAGNCT ATCAGACTCA CATCTNCCAA  
GTGAATGTCC CTCCAGTCAT CCGGGTGTAT CCAGAGAGTC AGGCTAGAGA GCCTGGGGTA ACT

SEQ ID NO:1147: (Length of Sequence = 389 Nucleotides)

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ATTTCAGTGG CCATTAAGAC CCTGAAAGTT GGCTACACAG AAAAGCAGAG GAGAGACTTC CTGGGAGAAG CAAGCATTAT  
 GGGACAGTTT GACCACCCCA ATATCATTGG ACTGGAAGGA GTTGTACCA AAAGTAAGCC AGTTATGATT GTNACAGAAT  
 ACATGGAGAA TGGTTCCTTG GATAGTTTCC TACGTAAACA CGATGCCAG TTTACTGTCA TTCAGCTAGT GGGGATGCTT  
 CGAGGGATAG CATCTGGCAT GAAGTACCTG TCAGACATGG GCTATGTTCA CCGAGACCTC GCTGCTCGGA ACATCTTGAT  
 CAACAGTAAC TTGGTGTGTA AGGTTTCTAA TTTCGGACTT TCGGTGTCC TGGAGGATGA CCCAGAAGC

SEQ ID NO:1148: (Length of Sequence = 386 Nucleotides)

ATTAAATTGCT TGCCATCATG AGCAGAAGCA AGCGTGACAA CAATTTTAT AGTGTAGAGA TTGGAGATTC TACATTCACA  
 GTCTGAAAC GNTATCAGAA TTTAAACCT ATAGGCTCAG GAGCTCAAGG AATAGTATGC GCAGTTTATG ATGCCATTCT  
 TGAAGAAAT GTTGCATCA AGAAGCTAAG CCGACCATTT CAGAATCAGA CTCATGCCAA GCGGGCCTAC AGAGAGCTAG  
 TTCTATGAA ATGINTAAT CACAAAATA TAATTGGCTT TTGAATGTT TTCACACCAC AGAAATCCCT AGAAGANTTT  
 CAAGATGTTT ACATAGTCAT GGAGCTCATG GATGCAAAATC TTGCCANGT GTTCAGATGG GCTAG

SEQ ID NO:1149: (Length of Sequence = 364 Nucleotides)

GGCAACAGGG TGAGACTCCA CCTCAAAAAA TAAAAAAA GAAAGATATT ATTCAAGAAA AGAATCTAGG AGCCAGGTGC  
 AGTGGCTCAT GTCTATTATG CCACTACTTT GCGGGCCAA GGCAGTAGGN TCCTTGAGG CCGGGAGTTC AGAGACCACT  
 CTGGGAAACG TAGCAAGACC TCGTCTCTAC AAAAAAGTG TTTAACAAAT TAGCTCAGTA TGGTGGCACA TGCTGTAGT  
 CCCACCTACT CAGGAGGCAG AGGCAGAAGG ATGGCTCGAG CCTTGAATT CAAGGCTGCA GTGAACCTAAG ATGGTGCCAT  
 TGCACTCGNG GATGGGTGAC AGAGCAAGAC TCCATTGCGG CCAG

SEQ ID NO:1150: (Length of Sequence = 267 Nucleotides)

GACAGGTGTA ATCTAAGCTT AAATAAACCC CCCGGAGGCT GCACAATTC TTGGCATCTC TCCCTGCCC TCTCCATCCG  
 CATATTCATT TTGGAGTTTG GAGAAGTATC TAGAATCTTC TCCACCCCA AAATGCCAG CAGAGCCCC CCGCCGCC  
 CGCACCCCTT GGAGCTGCGG CTGCTGAAT CGTTGAGATG TCTGANACTG TCGGGTTCC CTACCTAGTG CTCAACCAG  
 ATCACCTCAC TTTTGAATTT CCTTCCT

SEQ ID NO:1151: (Length of Sequence = 386 Nucleotides)

GGAAGACGAA GGAGGAGTAA AGGCATGINT CACATGGCAG CAGSCAAGAG AGCGTGTGCA GGGGAAGTGC CCTTTATGAA  
 ACCCTCAGAT CTGCTGAGAC TTATTCATA CCATGAAAC GGCACAGGA AAACCTGCCC CTAAGCTTCA GTTACCCCG  
 ACAGGTCCCT CACATGACAC ATGGGGACTA TGGGAGCTAT AATTCAAGAT GAGATTGGG CAGGGACACA GCCAAACCAT  
 ATCAGATACT TACCACATTA GACACTGACA GACAGCTCAC CACAGATCT GGGCTCTATT CAAGGTGTTG ACTTTGATCT  
 TTTTCCAGTT GTAAATGTTT CATCCAAAAA AACTGTGATT TTGGCATAAC TTTTTCAG AGTTGC

SEQ ID NO:1152: (Length of Sequence = 239 Nucleotides)

GCAATCTTTT GAGTGACITA CTTGAGTCT TTGTCACCT TCCCTGATT TTTTCATG GTTTAACTCA GTGTACCCAA  
 GAGTACTAGG TGCACTCAAT TCTGCTATTA ACTCTATAAG CAAGTCTTA AGAAAGTTAA TGTTAAAAA TAATCTTAAA  
 ATTGCTTGA TAGGAAAAAT GTATTGAAA TTAATAAAA TTCTATGTT GACTTCTGG TTTTGAAACA ATGAATATA

SEQ ID NO:1153: (Length of Sequence = 275 Nucleotides)

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CAACCTCCTC TTCAGTGTCA AAAAAGCCAC GGTTAGACCA GATTCTGCCC GCCAACCTTG ATGCAGATGA CCTCTAACA  
GATGTATGTT TTGTTTCTC CTTCATCTC TAATAATTGA TTTACCATGT TTTCTAAAA TACTTGTTAT GTCTTINCTT  
TAAGAAGTGA CATATATTTA TGTTTAGTTA CTGTTATTCA AATATAGCCC TGACCTCAGT GCTAAACTTT ATAGTTGATT  
TTAAAAATCA AAGTATTATT TTGTGGGACT TTAAG

SEQ ID NO:1154: (Length of Sequence = 203 Nucleotides)

CCTAAATCTT AACCTTACA ACAGTTAAAT AAGACCCCTT TCAAAGGGAT TAACACACTG AATATTATAT ACATACAGAT  
TTATATTTAT GCGCTATACA CATATATGNN CTTTATCTGT ATATAAATAT GTGATGATAA TGATAAAAGG ATAATGATTA  
CACGTAGGAT AACATTAT CAAAAATTGT ACTATAAATA ATA

SEQ ID NO:1155: (Length of Sequence = 343 Nucleotides)

GAAAACAAAA CACTAAGCTA TTTTGGACA ACTGTTCTAC ACAGAAGAGA GCTTCTCTTA ATTTAAAAA AAAAAAATC  
CCAAATAGGC ATTTTAGGC ATTAAACCAA AAAGAGAATC CAAATGAAAT ATTATACTTG ATGTTCAATT TTAATAGCAT  
CTTGATAAAG GTATGCTTCC TTTCATTGA NTACATTTCT GNACATGAT GTATATAAAT CCAGGNAACA GCCAAACCAC  
AAGTTAACTC TTAACAATGA ATATACATAG TTAACCTAT AGTAAGCAGC CCTTTGAAA AGCACTGATG CACCCAACAN  
TTATATGGTT CCATTCATA AGG

SEQ ID NO:1156: (Length of Sequence = 396 Nucleotides)

CCCACCAAT GCCATTAAAC CTCCTAATCT TTAAGGGAG GNTCTCTACT TACTGTTCA AGGCAAAAAG ATGATTAANC  
TATCTCATAT GGTGTAAAT TGGGCTAAA ATAAATGACT CTAGTGGTAG CATTTTCATGT AGGCAGGTCC AAGGAAGACA  
GATTTGTAGA CAGAGTTGGG AAAAGGTCA AAGAGCCAAT GAGTCTCCT ATCCTGAGGG ATGCTTGAC GGAGCCACAG  
CATGANTCA TGTTTCTCTG AATCCATCTC AGTTCATGT ACAGGATGGA AATGCTTCCT TTCTTAGCCA GTGTGCTTG  
TAACGAGTTC CTTGAGCTC AGGGAAGGGA GCAACATGTA CTGCTTTGTT GCTTCTGTA TAGAGAAGGC AGGAAT

SEQ ID NO:1157: (Length of Sequence = 269 Nucleotides)

CAGGGTCTCA ATCGTCTCC CAGGCTGAG TGCAATGGCA CAATCTCAGC TCACTGCAAC CTCCACCTCC CGGGTCAAG  
TGATCTCTCT GCTCAGCT CCTAGTAGC TGGGACCACA GGCCTCGCC ACCGCAACCA GCCAACTTTT GTATTTGTAG  
TAGAGACAGG GCTTCACCAC GCTGGCCAGG CTGGTCTCAA ACTCTGACC TCAGGTGATC TGCTGCTC GGCTCCCA  
AGTGTGAGA TTCCGGCTG AGCCACTG

SEQ ID NO:1158: (Length of Sequence = 190 Nucleotides)

CTTATTAGTT AATCCACGG CAGATTTTCA TTTCTATCGA ATATATTATA TGTAGAACT AGGGCCTTAA ATAATTAGC  
TGACTTINCC TATTAGTTAT TCCTAAGAT AAAATTATGC TGGTGAAT NACTGTNGAA TTTCTCAAGA AATTAGCTC  
TATAGAGGCA TAAGTAATCG AAAGACTTTT

SEQ ID NO:1159: (Length of Sequence = 340 Nucleotides)

GGGCACTGAC TTCTGGGAG TGTAAAGCNC TCACCTGGAC CCCACAGCCA GTGAGCATTA GTGCTTATAT TCCATCTCC  
AAAGCTCTTT CTTCATACCA GACCACACAT GTGGCCCAAG GAGGGATATT TACTCTGCAC TTTTAGAGTT CTAGAAAACA  
TTGTTTAGTG GTCTGGCATC ATCTATATT ACTTGGCTTG ATTGGGATA GAGTATAATC CTAGTCTCG ATGAAAGGAT  
TTTATGAGT TAACCTTATG GGGTGATGGG ATTTATGGGA TTATTTCCAC CCTTAAATG ATTTTGTTGGG GAAAAAAGT  
GTACTAATCC CTAATTTAGG

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SEQ ID NO:1160: (Length of Sequence = 215 Nucleotides)

GTAAACAAAT CAATTAACAT GATTATCCCA GACCTTTCTT TTCTTACTGG AAAAAAGAGG GCATTAAACT GGATGATGAC  
AATAACACCA TAACTACAAG CTTTATATAA AGTCCTTAT ATACAGTGT AATACAGTGA AAGNTCAACC TTATTGAAAG  
AGGTCGGCT TCTGCCCTCA GCTACTGGGA AACAATCACT AGGCCTCTGG CATGT

SEQ ID NO:1161: (Length of Sequence = 298 Nucleotides)

AATCTTTAAA ACTACTTTGA ATCTATAGA AACATCAGAA TCTTTTGAAT TCAAAAGAAG CCAGGGACTC TAGCCAAAGT  
GGAGTGGTTT TTTAACTCAA GGATTAGGA CCTTGGCTGA ATACAAACAT TGAATGATTA CTCAGTAGGT GCCAAAGCTC  
AGGACTTTAG ACAGAGTCAG AGTCCAGTTT GTNCTGAAAC ACAATTTGAT TTCAACTATT GTTTTAAGTG AGAGAGGAAA  
GTGACATTAT TATGAGTGTA AATTNCTGC TTTTAAAGTA GAAGTTACTG ACAATIGA

SEQ ID NO:1162: (Length of Sequence = 163 Nucleotides)

GAAATAAGAA ACAGCTTGTA TATAACTAAT GCTTTGAGGG AGAAATTCAA ATGGCTATGA AAAAATATTT ATAATTCAAT  
GATAATAAAA ATCTTACACG TTAAACTTG AGAATGTAGT TAAAGCAATA CTGGNCATA ANCTTAGCAC ATATTAGTAA  
AGA

SEQ ID NO:1163: (Length of Sequence = 393 Nucleotides)

GCCAAACCCA GGAGCATTTT ATTCAGATGT TAAATGAACC AGTTCAAGAA GCTGGTGGTC AAGGAGGAGG AGGTGGAGGT  
GGCAGTGGAG GAATTGCAGA AGCTGGAAGT GGTCAATGA NCTACATTCA AGTAACACCT CAGGAAAAAG AAGCTATAGA  
AAGGTTAAAG GCATTAGGAT TTCCTGAAGG ACTGTGATA CAAGCGTATT TTGCTTGTA GAAGAATGAG AATTGGCTG  
CCAATTNCT TCTACAGCAG AACTTTGATG AAGATTGAAA GGGACTTTT TATATCTCAC ACTTCACACC AGTGCAATTAC  
ACTAACTTGT TCACGTGATT GTCTGGGATG ACTTGGGCTC ATATCCACAA TACTTGGTAT AAGGTAGTAG ATT

SEQ ID NO:1164: (Length of Sequence = 260 Nucleotides)

TGCATTCTTG CCTTTTGAC AAGTCTGCT TCTTTACAAA GGACITTGCA AGTNCITCAC CCAGACCATC TCACCTGTAC  
CGAAATAACC TCCCTACTA CGGAATGAGC AACTTTGGAG CAGAAAGCAG AACTGCATC ATATTCTCT TACTATGCAA  
ACTGGTAGCT CAAACCTCAT ATGACCTCAA AAACTATAA TTGCTTCAAC CTAAAAAGC TGATTGTAAA AAAAAAAAAA  
NGCTGTGGTT GCACACAGT

SEQ ID NO:1165: (Length of Sequence = 330 Nucleotides)

CATTGGTATT TAAAAATGAA TATTAATATA ATGAAATGNN TTGGCTTTT TGTAGGCATA ATAAGCCAAA TACTTTTTTA  
CCCAAAATAA TTTTINAGAGA AAATGATGTA ATGAAAAATT GTACCATGAA TTAGGAGCAT AGTTTTTNC ATTTAAACGT  
CACCATTACT TAAAAGATGA TTGATTATTG CTATACCAA TCAGATGAAC TCTGTTTATC ACTTCTCTNC TCTGTCCCA  
AACAATTTGG TTCATTGAGA CTGAAATGTT TGTGTCTTCA ACTTATTAGA ATGGAAGATA ATGCAGATAT TTCTGTGGGA  
AATAAAATAA

SEQ ID NO:1166: (Length of Sequence = 312 Nucleotides)

ATTGGAGATG CCTTTGTCAA ATTTNCCCAT TTTAAATGGC CAGGAAAAAC AATAATTATT TTCTGTATGC TGAGGTTTTA  
TATCTTAGTA GAAGAACTTA AACTATGACT TGTATTCAAG TCTAACAGGA ATAGAGGTAA TGANTGAAAG TAGTCATTGA  
CCTGGGACAA GATCACTTIG AACATGACAC TATTATACAA AGTGTAAATAT TTATTTTTAA ACAACCCTT TTCAAAGCA

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GTTTGTCATA CATTCCAAAG AATAAAATGC TAGCTACTAG GTTTTGAGAA GCAGAATAAA ATATGATACT GA

SEQ ID NO:1167: (Length of Sequence = 305 Nucleotides)

AGGAAAAGGA TTGATCACAG GAGAGGTACC AAGGGAGTTC CCAGAATAAT AGAAAAGAGG NTCCTCAAGA AGACAGTCAC  
GCAAGAGACC AAGAGAAGAG CTAATCCAAT TGATGCAGGA GGAAGTAGAG CTTGAGAAAG AATGTCTCAA AAAAGAAAAA  
AAAAGAAAGG AGTGGGTTAA GTATCTGATG ANTTTNCCAA ATTGAGAGGA GTTACATAGC TCTATTGAAA ATCTTAGATA  
AANNTGATTG ATAAATACAT AGANCATAAA GCAAACTCTG AAATAAGGCA ATTATCAACT CCAGG

SEQ ID NO:1168: (Length of Sequence = 342 Nucleotides)

AAGGTTTTAG TGATGATTCA GTGAGAAACA TATTTGAAGC AACAAGCACA GTAAC TGGA GCTGTAGGTA CTCAATAAGT  
GTCAGTTTCC TTCTCTCTCT AAAAGCTGTG CTTTCAAGTC AATGTATGT CTAGAGTCGC ACTGTCTGGT ACAGTGGCCA  
GTACTAGCCA CATATGGCTC TCAAGTACTT TAAAGAGGGC TAGTCTGAAT TGATATGTGT CATACTGTGA AAATACTTTA  
AAGAGGGCTC ATCTGAATTG ATATATGCCA TGCATGTAAA ATACAAATCA GATTTCTAAA ACTTTGTACC AAAAAATACC  
ATAAAATAAC TTACTAATAA TT

SEQ ID NO:1169: (Length of Sequence = 397 Nucleotides)

GAGACGGAGC TCNCTCTGTC GCCAGGCTGG AGTGCACTGG CACGATCTTG GTTCACTGCA AGCTTCACCT CCCAGGTTCA  
CACCATTTCTC CTGCTCTGTC CTCCCGAGTA GCTGGGACCA CAGGCGCCCA CCACCAGCC CAGCTAATTT TTTTATATTT  
TAGTAGAGAC GGGGGTTTCA CGTGTTAGC CAGGATGGTC TCGATTTCT GACCTCTGTA TCCGCCCCGN TTGGTGTCCC  
AAAGTGCTGG GATTACAGGC GTGAGCACCA ATGCCAGCC TTTGGAGACA CTTTGTATG CCACAACCTCA GGGTAGGGAG  
GGCTGGGAAA TATTACTGGT GTGTAGTCA TCGAGGCCAG GGATGCTGCT AGACATCCTG CAATGCACAA GGACAGG

SEQ ID NO:1170: (Length of Sequence = 422 Nucleotides)

GTTTAAAGC CTCGACAG AGCAGTATTT CGTTTAAAC TTGTGTTTTT TTAAGGCTT ACAGTGTGTTG GCTAATCTC  
CTCCCCTTT TACAAGACGG GGGCCGGAGG GTGGACACTG GTGGCAGGT AAGGGTACT GTCACTTTAA GAAGCCTGCA  
GATTGAAGTG TAAACATGGA GAAATTAGGG GCTGATTTTT TAACTGTGT GAGATATTA CCAGCGCCC TGTATATAAA  
TCAGAAATC CAACAGCGA TTACACCGA TTAACCCCC CTTTATATAT TTTTACAAA AATACACTGA GAAATAATC  
AAACGTTTT ATCTCTCTG TCTTTTTTG TTTTTTAAA GTGTCAAAG TCTACATNTA AATATAAAN ATTAAAGTT  
AAACTCTAGC CCTTCAGTGA GG

SEQ ID NO:1171: (Length of Sequence = 384 Nucleotides)

TCTGAATGGG TTGGTGAAAG GTTACAGGAG CAGACAGCCT CCACACCCAG GCTGCTCTTG GCTATACAGG CTACCTCCAT  
CCCTGANTGT TGTAAATAGGA AAGTCTAAAC ACACAGAAGA GGAGCACAAA ACCAATAATT ATCACACATT CAAAATAAAA  
CTAATCCATA AAGAAAAGTA CCAAACTCAA CAAAGACAGC AATGCCTGAA AACACTGGGC TGTATCAGCA AATAGAACAA  
AGAAAAATAN GCATAATTAA AACAGTAGAA GTGAAGGAT AATTTTAAA ANTTAGATAT CATATTCTGA TTAATGAAAT  
AAAAAACTTA GTAGAAAAGC TTAAGTGAAG AGGATCAAAC CTGAGGAGGA CCCCAGCAGT TTG

SEQ ID NO:1172: (Length of Sequence = 418 Nucleotides)

GAGAGAAAA AAAAAATCT TTTAAAGCT GCCATCTGAG GTGATGGCTT CTCGTACTT ACGCCATACC CCAGANTACA  
ATAAATAAGC AATTAGAAA CGTTCAAGTA TGAAGGGATT TCCTCTCC CCACAAAAGC ACTGCTCTCT GAAGGAAGCT

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GGTTTCTCTG TAGCTACACC AGCTGTTTCAG AAAGCTCATT GGACCTGGTT TTGAAAATAA AACAAAGTTA AAACCTGGG  
 AGGAGTTATT GINCAGTGTG GAGTACTCAG GCTTTCTTAT AAAGAAAAAA AAAGGTTATC TGGTACCAAA GTGTGCACCT  
 ACAGACCCCTC AGGTACTGCC CTGTGACTTC NCTGTATGAC ATCACAAGGC TGCCAAGTGC TGCTTTNCTA GACTAGGGAG  
 TTGGTGAGGT TTGCTAG

SEQ ID NO:1173: (Length of Sequence = 274 Nucleotides)

GAGATCTAAA TGAAATTAT AAGAAAATTG TGGGTTCTGC CCAAGATGAC ATCTAAATTG AAGAAGGTAC ACAGTGAGTT  
 TAAAGGATCA ACGAGAGAAA CTTTATTAT TCAATTGCAC AAGAAGACAC ATTCAATATC TGGATTATCC AATATATGGA  
 ATACTTTGAG TTGAAATGAT TAAAGGGTAA TCTTTAATCA TTAATTAACA AATCATTAAAT TAANCAAAAT AATATTTAGC  
 AAATTAAGCA AGTNCATAAG GCTACATGCA AACT

SEQ ID NO:1174: (Length of Sequence = 326 Nucleotides)

AGAAATTAAA ACACTTTAAT ATAAACATTT CCAGAATATA GACTGACCTT ATATCAGTAC TTTTNGAGAC CGTTTTAAAA  
 CTATATATCA TCTAAGTTTA TTATAGACTG TTTTCATTTT CACTTTTCAGA ACTAGAAAAT GCAAAAATAC ACTGCAAAAT  
 AGATTTTACA AAGAAAAAAT CAGTTTAAGN TATTTTCATC ATATTCTTGT GNGAAAGCTG AGACACATAA ACACAGNAAA  
 ACAACAATAA AATACCACCA AACTAACAC AAAACCAAGG AAAGAACTGN TTTTGTAAGS CTGTGTAATT CTGTCTTTTA  
 AAATAA

SEQ ID NO:1175: (Length of Sequence = 426 Nucleotides)

GCAGTCAGGA TGCACACATT AGAAAGAAAC ATTTTAGTTT CAATGTTACC ATAAAACCAG AACGAAAAGC AGCATGCTGT  
 ATTATATTIN NCAATTTAGG TTCCATTTCT AACTCCACCT AAAATGAATA TGAACAACT CATTTTTAAG TGTGTCAG  
 TCAATACAA TAATAGTCTA AGTTTATTCA CATATGTACC AACCAAGCC CAATAAGCT AAAAGGAAGC CAAGTGTAAAT  
 AAAAAGGCAG CTATAAGGTC TTGTGTTTGA NTTTTACCC AGCAAGAAAT AAATGATACT TAGTAATCCA TCTTTCCCC  
 CCCTGCCAT CCCTGCACAC ATCTAAAATA GGCTAACTTC ACCTATTCTA ACTTCGAAA TTGTTTTGGG ATTCCTGTTT  
 TACTTTCTCA GAGTGGATGG TATAGC

SEQ ID NO:1176: (Length of Sequence = 301 Nucleotides)

CTAATCTCA ATCTATCCC TTNCCCTTT AGCCATCCTC TCTAATTINT TTAACCTAAG CCTGTGTGTC CTCAGAAAAT  
 AGGTTATGCT GTTGGTGTGT GTGGTGGTA ATCTATATAC ATGGNGTTAT GCTATTGATT TTGTTTGGTA ATCTCCCTTT  
 TTACTCAATA CTATATTAT AAGANCCNTT TAAGTGGTTG TATGCCCTTA CTTTATTGCT TCTGACTGCT GCATGGNATT  
 CCATCTCAT GTCCACCACA CTTACTCATT CTCCTCTTG ATGGACGCTG AAGTTGCTTG G

SEQ ID NO:1177: (Length of Sequence = 331 Nucleotides)

GCAATTCGCC TGCTCANCT TCTGAGTAG CTGGGATTAC AGGTGCCTGC ACCACGCCG CTAATTTTT GTATTTTTAG  
 TAAAGACAGG GTTTCACCAT GTTGGTCAGG CTGGTCTCGA ACTGCTGACC TCATGATCCG CCGCCTCAG CCTCCCAAAG  
 TGTGGGATT ACAGGCATGA GCCACCAAGC CCGGCAATC CATGCTTTTA AACATTACTC TGTATGGTGT GATAATGAAC  
 AGTCACTGNT ATCTGACTGT TCATCTGTGT GGTCCATCTG TATGAATAA AGGAGGAAGG AGTTGAAGAA TAAAGGGGAA  
 AATCTTGCAG A

SEQ ID NO:1178: (Length of Sequence = 325 Nucleotides)

GAAATTTNTG GAGAGAATAG TCATACCTAC TTTAAAGAG AATAAATTGC CTTTCCATAA TNCCTCTGCT TCGCTCCTTT  
 CCTGGCGTTG CTCTGGAACC TTGTGAGTTA TATGTATGAT TNCGTACTC TGATATCCAT CAAAGTGCAT AACATAGTAC

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TCATGATGCA GTAAGTACAA ATCTTTTTTG AAAGAGATAT TGCTTGINAA CATTITGGAT TTATAACATT GGCTTATAAT  
ATATACAACA TCTTTATAAA TGCCACCTCA GTTGGGTTTT AAGCCTTACA AGAGTGCTAT GAGTAAATAT CACCCACTTT  
AAAAA

SEQ ID NO:1179: (Length of Sequence = 297 Nucleotides)

CCTTGGGAAT TGTTCCTGG AAATTAAAGC ATGTGTCTCA CACAAACAGT AGAAGGCATT GAGCATTGAT TAGTCTTTCC  
TCAAGAAGAT ATCAAAATGA GACTAGAAAC TCTCTGGTGA ACACAGAATG CTCTGAGGGG GNCCAAGGTA CATATGACC  
TTAAAACGAA CTCCTTCTCC ACTGGCCCTA TTAATCACTG TGGAAAGCAC CATGCCAGGC ACAGCAAGAG ACTTAAGAAC  
ACCTACAAAG GAAGATCTCT NCCATCCACT TGTGTAATTA TCTTTAAAAA GTAATCC

SEQ ID NO:1180: (Length of Sequence = 278 Nucleotides)

GCTGCTTGGG ACTTGAAATC TGTGGCGAA GACNGTCAC TACATAACTT CAAAAATAAT CAACCACCTT CCTTCCCAA  
ACCACCCAAA TTCACTCATC CAGCGTTTAC TTTTTTGAAT CCACTCAGAA CTTTTTNCIG CGACCCCTT CCTTAAATGG  
AGTTGGGTGG GGGGAAATG AATACTGAGT TGGCCCTTAT TTTTAAAAAG ACTTTTIGAT CCAATGAGGC CCCCTAANTA  
ATTGAGTTTT GGGTCCCTGGT TGGTTTGTIT TATTTTGT

SEQ ID NO:1181: (Length of Sequence = 331 Nucleotides)

AATTGAGTTA CAGGAGAATA CTGTGAACAA TTGTACAGCT AAAAGTAATA ATCTAAATTA AATGTACACA TTCTAGAAA  
CACACAAATC ACAAANCTG ACTCAAGGAG AAATAGAATA TCTCAACAGA CCTATAACAA CTAAGATAT GGAATCAGTA  
ACCAAAGCC TTCCAACAAA GAAAAGCCCN GGANTAGATG ATCTTCACTG ATGNTTCTA CCAACATTT AAGAAAGATT  
TAACACTAAT TCTACTCAA CTCTTCCACA AAAAATATGA GANGAGTAGA GAAACTTTC TAAATATCT TATGAGGGCA  
GCATTACCGT G

SEQ ID NO:1182: (Length of Sequence = 345 Nucleotides)

GTTGTINTAG AGGGATGGAC AGGATGCTGT TTATTNCCC TTCTTGGAA ATGGACCTTC TGTCCCTTCC ATTTGGACAC  
CACAGTGGAA GCTGGTGGCC TGAAGGAAG GATTAGTCA TGGACATTG AACAGGTGCC TTGGGCATGA TGTATAGATG  
CAGTCATATA TACCTTCTG GGNIGGGTIG CCACCTCCAG TGGNCAGCTC CAGATCCAAG GAGCAGCCCC CTGGGGATGG  
ACCCCATTC TATCATGA CTCCAACAG TTTTINATTG TGAAGAAGA AACTTTNGCA TTATAGAGAC ATCATCACAA  
AACAGTANAA ACAAATCAA CCTG

SEQ ID NO:1183: (Length of Sequence = 272 Nucleotides)

ATGGAAGATT CAGAGATCAA AGGTGAAGTC CTCTATCTCG GCTACTACCA ATCAGCCTTC GACTGNNATG ATGAAACANC  
CAAGGCTCC AAGCAGCATC GTCTTAAACG CTACCACAGC CAGACCTATG GCAATGGGTC CAAGTCCGAC CTTAATGGGA  
GGCCCCGGGA GGCCGAGGTT CGGTTCCTCT GTNACGAGGG TGCAGGTATC TNGGGGACT ACATCGATCG CTTGGACGAG  
CCCTTNTCTT GCTCTTATGT GCTGACCAAT CG

SEQ ID NO:1184: (Length of Sequence = 335 Nucleotides)

ACATTTTGCA AACTCAGTTG ACTCACCTCA NATTTGCCAT TCCAATTACA GGGCCTCGAA AGAGTCAGCA CTCAGCCTTG  
CTCAAGGNTC AGATTAGGG GTTGCCCCC GNCCCGCAA CCTCCACCT ATTGTTTCAA ATGTCTTCAA GACAATCACC  
ACTGTATTAA GAGAAAGAGG CATGGGGGCA GAGCAACAAG GAAATAAATG AGGCTTGAGA ACTGTGTCTA GGTGGGGTTA  
CTTTGAACCT TAAACCACCC TTGGGNCCCA AATCTGCATG AGCAGGGGGT GGGCTATCAT GCTACAGANC CCCAAGGAGG  
ACATTTTTC CAACA

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SEQ ID NO:1185: (Length of Sequence = 383 Nucleotides)

GAGAGGTGAG CAGGCGTGCG GGGGGGGGAC TTCTGCAGAG AAAATATTTT TAAAGTCATA AAACCATGAA AATAACAACCT  
 ACTGTACGTT TTATTTTATA GAAATCAAGT AGTATCTAAT AGACAAGGGA AGACATTGAT CCATAAACTT TTTAAAGAAA  
 ATTTGGTAAT CTCTTAAAGT ATTTGTATGG CTTTGAATGG GTGTCCTTTT CTAACITTTT TTTAATTTTT ATGATACACT  
 TATAATTGTT TCAAAATAGGC ATTTGTNCAT TTTAAACTA CTAGAAGTGA CACTGAAGAA AAGCATTCAG AAGAAGACTT  
 TTGGACAAAA AAAATTGTTG AATGAGTGAA ATGCCTGAGG TAGCTCAATT TACCAAACAG GAA

SEQ ID NO:1186: (Length of Sequence = 373 Nucleotides)

GGGGCTCAAG GTGTGCATGT NTGAGGGAAG AGAGAGAGAG AGAAGGCCGC CTCANAGGTG ACTTTCAGCC TGCNAGCCTT  
 CTTCCCGGGG CGCCATAAAC GCCCCCAATT TCCAGCTGC TAAAGGAAGA GGAAGGTACC GTGTCGTGCA CGCAGACGGG  
 AAGGCTGGG GAAGCGGGAG GACTGAGAAA AGCCAGATCT TAGCAAAGCA ATGTCTCAAG ATGGTGCTTC TCAGTTCCAA  
 GAAGTCATTC GGCAAGAGCT AGAATTATCT NTGAAGAAGG AACTAGAAAA AATACTCACC ACAGCATCAT CACATGAATT  
 TTGAGCAGAN CAAAAAGGCG CTGGGTGGAT TTCGGAAGCT ATTTTCATAGA TTT

SEQ ID NO:1187: (Length of Sequence = 365 Nucleotides)

TCCACGCAAT TCTGAATAAA GTTATTAA TAATATGTAC AGCAAATGTA GTAATTCAAC ACATCTATTT ATCAAATCAA  
 TCCACTGCAA TGAAGAAAAA TAAATGANCA GAAAAATCTA TGTCTGCATA GGNCATGCTC TCAGTGTGTA ATTTAAATGG  
 CAATACTTTA AATTAATTGG TTATATATAA TGTCAGTTAT TTTCTTTTCA GAATATAACC TTTTTTGTAG TAACCTATTG  
 TAGCAATAGG GCTTAATACG NCTGCAGATA AATAGNCTG CAAAAACCAA AAACCCAAAA TAATGAAATT NAAAAGGGGA  
 AAAAACTGT AACTGNGNTC AGAGTTACCT TTCTCCCCC ATAGG

SEQ ID NO:1188: (Length of Sequence = 350 Nucleotides)

ACTATGGCT TACATTTATT TTAAATTCA CTAAATACAA ATCTTGATG TCATGCCAGT TTTAGATCTT ATTAATTINC  
 AGAATGGATA AATTCAAATA ATCATAAATT ACGGTAACCT TTTATTATAC CAAGGTGTTT TAATGCCATC ATATGANGAC  
 AGATGCTTCA AACAACTGC APTAAATTAT ATTTNNAATA AAATTAAAT CTATTTTAA CCTATTTGTA GTCACAAACC  
 GAAAACGTGT CGNCTTTACC TTAGAGCTAA AGGCTTACTT TATGCATACG GGATATTTAA TAGTCTACAA ATCAAAGGTT  
 TAAACAGNCC CTTAAAAATT CCATATATTG

SEQ ID NO:1189: (Length of Sequence = 393 Nucleotides)

GCAAACTTNC TCACCTCCTC AAAGAAGAGT AGTGCACTAA AAAGAAGGTT GCACCCGGAG AGCATGTAAA GTGTCTCAAG  
 GGGGACATCT GAAGTNCCTT GTTCCCAGGG AGCCCACTGG CTCCTCACAA GTAATCTAAT GAAAGCTATG CATTCCTCTT  
 GGGCTCCTCA TATGAAAAAN CCAATGTAT GANGCAAAGC CTAGAAAGGA TTCAATACTG GAGAAATGCA CACAGCTACC  
 GATAAAGACA GCTCAAAAGT CTTAAGGCTG CTGACATGAA CCAGATAATT GGTGGCTACA GTTGTGCTTG CTAAGATTG  
 GGTGCATGGG GCTTCGCTTT GGTAGCTCC CATGGCTTC TTTTCCAAA AAAAAAAG AAGNCTTCAG GTT

SEQ ID NO:1190: (Length of Sequence = 365 Nucleotides)

AGTGTAAACA TTCACATAAT TAATAGTACC TTAAAAATA GCATTACTAC ATTTAAATG GTTCCAAAAT GAATCTATAA  
 ATGGTAATAT AAATTAAAAA ATACGAACCT AAAGTGAATA AATTTTAAAC CTTAGCTATG GTATAAATAA TGGTAAATGT  
 ATAGTGTACC TGTGATCAT TAAATGTCT TAAAGATAA CAGCTTGTTA CCAGAACATT AGANACCATA GCCATGATTG

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TCAAGCGNTA ACAATCTACA TTGNTATTT NCTTGGCCAC TGCAITCTTC AAATGANTAA TAAATTTCCA GAATTCCCAT  
TCCCATGGTG TTTTTCCTAA TAGANCTTTT TCACACTCGA TGTG

SEQ ID NO:1191: (Length of Sequence = 303 Nucleotides)

CCCGGAGAGC TGCCITCCTC TTCTACCACG TGAGGACACT GCAGGAAGAC AGCTGTCTAA GAACTAGGAA GTGGGCCCTC  
ACCAGACATT GAATCTGCGC TCCTTGAAC TGGACTTCCC AGCATCCAGA ACTGTGAGAA ATAAATTCAT GTTATTATA  
AACCAACCTG TCTATGGTAT TTNTGTAGC AGCCTGCAGC TCTCTATCAC TCTGTATTAT AAGAGGCTGA AGTTTACTTT  
ACCTCAGGCA GAGCTAAGCA AAAAAGATTA CATCCCGATT ACAAGATGAA AGTAAACAGA ATT

SEQ ID NO:1192: (Length of Sequence = 315 Nucleotides)

ACTCCAGCCT GGGGAACAA CAAGCAAGAC TCCATCTCTA AATAAAAAAG AGTGTCCCC TAAGATGCTC TCGAAATAT  
TGTAGACTGG TGTCTCTCTT GGATGATGTT TGCGTCCAGC ATTCACCAA TAACTTGCT CTCTGGGAAA AAAAAAAAAA  
TAATAAATAA AATAACAGT AAGAAACACC CATAAANCA ATTTCTATGC TCCTGCAGCC TCTTTTGGC TGAGCAAGTG  
GGACCTTGGT ATACACATCA CCTGINCTN CCTTTTCTT TGAAATGIGG TGTTTGCTGT TAAATGGGA TTGAA

SEQ ID NO:1193: (Length of Sequence = 313 Nucleotides)

CGAATTAGTG AACTGTGCTT CAGGTCAGG AACCTGGTCT TAGCTCCTTG CCTGCTGAGA TTGTAGTGA CAAGTAGAAT  
TCTCCAAAAG CAAAACAGT AAAAGTCATT TTNCCACTCT TTTGGTCAAG CACATGTAAG CTTCAGGAC CAGGTGGTAT  
GCGTINCTG AAAGTGAGAC ACATGCCCA GGGAAAGGT AATTTTAAA TTCTTCCAT AGGTCTCAT CCTGTCTCTC  
TGCTATGTCC AGCATCTTN AGTCCAGCT GCAGGGCCTA TATTTAATA CCTCATGCT TTATCGCTTT TGT

SEQ ID NO:1194: (Length of Sequence = 341 Nucleotides)

GATTTAAAAG CAAGTNATTT TNAAATCCAC GAAAGATGCC TACCTGGNT CCTNCTCTGG TCCTTATTAG CCACACCTCT  
CTTGACAGGC AGAGGAGTTA GGAGTGAGG GATATTCCA CCAAGACCTT ACAAATGCA CTCTTAGGCC ATGCCCTGGG  
TACCCAAACT CTAGAATTCC CTCTCAAAG GGACCTTAAC CCAACTTCAG AGCCTATATA GGCCAATTCC TTGGTCCATT  
TTCCAAGGGG TGGNCAAAG ACAACCAATT TNGGGAGGN GANGGAGTA GGATGAAGCT TTGNCACGT GGGTCTGGG  
CAAATCCAC ATATCCCGA A

SEQ ID NO:1195: (Length of Sequence = 239 Nucleotides)

TTATTGATTC TTTTTTGAA ATGGAGTCTC GCTCTGTTNC CCAGGCTGGA TTGCAATTNC NCGATCTCAA CCCACTGCAA  
CCTCGCCTC CGGGGTGGA GCGATCTCC TGCTCANCC TCCTGAGTAG CTGGGACTAC AGGTGCGGC CACCATGCCC  
AACTAATTTT GGTATTTTTA GAGACAGGGT TTCTCATGT TGGTCAGGCT GTTCTCAAGC TCCCAACCTC AGGTGATCA

SEQ ID NO:1196: (Length of Sequence = 291 Nucleotides)

CCATGCTTGG CTCAGGGCCT GGGGGGGGT CCTGGGTAGA GTCCTAGCCC CAGAGCCCCA GGGCCTCATG TCCTGCGGCC  
CCTCACTGAC CAGACGATGA TGGNAACCT CTTGAGAAAA CATGGCAAAG GATTAGAAAA GGGCAGGGTG AAATTNCAA  
GCCACTCAGA CGGAACCCAG ATGATCTTCA ATGCAGCCAA GGAGCTGGGT CAGCTGTCCA AACTCAAGGT TCACATGGTA  
CGAGAAGAAG CCAAGAGCTT NACCCCAAAG CAGTGGCGG TTGTTTGAGT T

SEQ ID NO:1197: (Length of Sequence = 303 Nucleotides)

CTTCATATTT TTATAGCTGG GGTCAAATA TGCAATTTAA AAATAAATAT ATCCATTINC CTATTCTTAC ATTATGAAT  
ATAAAANTAA AATCTAAGAA ACATAATGCT GCCAACTAAT AGTAGTGGAG GAAAGGAAGC TGAGAGAAAG ATAAATATAT

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TANTTTAATC ATTACTCAGA AAAGGCAGTA AAAGATACTA TCTATAGCAG GCATCAATAA ATATGANCCA TGAGCCAAAT  
CAGGCTTACC ACCTGATTTT NTAGGATAAA GTTCATTGNA AACACAGTTA CAGTGTCTTT CCA

SEQ ID NO:1198: (Length of Sequence = 318 Nucleotides)

CTCAATTTCT TCTCATCTTT TTATGCTAT TATTGTCTA TAAGTTACAT TCCTATACAT TGTGTGTCCA ACACAAATTT  
AAAATTATGC CATTGTCTCT TAAGTCATAG AACAAAAGAG ATACAAACAA AACATACATT TATCCTGTCT TTTATATTTG  
CCTATGCAGT TACCTTTACC AGTGTTCCTT AITTCINCAT GTGGATCTGA GTTACTGTCT TTNAACTTCA ATCTAAAGNN  
CTTTCAGTCT GAAAGACTGT AATTINAATT TCTNGTAGGG GTAGGTTAAC TAATGATTAA TTCTCAGTAT TCTGAGGA

SEQ ID NO:1199: (Length of Sequence = 326 Nucleotides)

TCTAGTTATT CTGAGAACTA CAACCAAGAA AAGAGGGAAG CACCGGGTTG GCCAAGGCCA TCCGGAGACT TGTCTGTCTG  
GGTCATTTAA AAAGCTTTTC TAGGATAACG TTGGCTTTCC AAGTGGTTTT CCAAGCTGAT GTCTTTCCCA CTGAGGAGAA  
GCTGTAGGCC TGTGGACTGC CAGGTAGGAG GAGGTTGAGG TTAGAGGAA AGAGGAGAGC AGGAATGGGT TGTTCAGT  
GGGGCTGTTT CCATGGACTC ACCAAGAAGA AATCGAGGTG CTGATGGGCG TGCACAAGTG CTTATCAGAA ACAGCTGTAA  
CAAGTT

SEQ ID NO:1200: (Length of Sequence = 341 Nucleotides)

GGGTGACAGA GTGAGACTCA GTCTGCTGA AAAAAACAAC AACATTGCTT TACAGTGTGA TTCCAGTTAC AGAGAATATT  
CACATAGGTG CATAAATAAA TGAAAAAATT ATTGGTTAAT GTCTCTGTAT GTTGGGATTC TCAGTGATTT TTTTINCTA  
CTTTINATTT TINATAATTC CTCCAGTGTG TTGGTGTAG CTTTATAGAT TATATCAAGT AACCTTTTGC TGCACCAAAA  
AACCCCCCAA ATCTAGTGA TTAAACAAA ACCATCTTAC AATTTTNNIC AGAAGTGTCT AAGGCTGGAT ATTTACTGG  
GCTCTCTCTT GAATGTGGGG G

SEQ ID NO:1201: (Length of Sequence = 312 Nucleotides)

GTCTTTNITA CCTGCTAGC AATAGCTCTC AGTTTCAGAG GCACAGTCTT TGGAGACCAT TCAGCACTGA GAAAGCAATA  
TTTAGAACCT ATTGCAAAAC TGGGCTGAG TTAGGCATGG TGATGAATGC ATCAGCAAGG AATAGAAAGT NCTTATCGTG  
AAACCTTCA ACCTCAACTA TGCCTTCATA GACACACACG TTCATGCACA TGTAGGCACA TGTACCATCT CACATCTTTC  
ACTTTCCCGA GATGCCATAT ACAATTACCT ACATTAATAN CTGTAGCACT ATACCTTTTT GAGCCCGAGA GA

SEQ ID NO:1202: (Length of Sequence = 344 Nucleotides)

GGAAATAGC CAGACTGGGT ATTATGCATG TAACAAATGA GGACATTGTG CATAAGAAAG GAAACATTAG TTTTCTGTCA  
TCCTGGGCCA AGTACCTCAT TACAGTAAAT GTGTGTCTTT GGAAACTCTT TGCTTGINCT GATGGCGGTA AGCATGGGGT  
CCCAGGCAGG TTCAAAGGCT GAACTGTAAAG AAATGGGCAA GACAATACAT TTGTPTTGG AAGGAATTTT TCATGGGATA  
AGTTTCCCAA AGCTTGAATT ACAGGCTATG AAATAAGCA AATAGATGGA GGAGAAAACA AGTATTGTTT TCAAAAAGGT  
ACCAAGTCAA TTCTATTTAA AGGA

SEQ ID NO:1203: (Length of Sequence = 370 Nucleotides)

GTCTTTATC TTCTCTCTT TATGTGCACT ATGTAATGTC CTCATCAITT TAAAAGTGAG TTGCTATTGG GCGGGCGGG  
TGGCTCACGC CTGTAATCCC AGAAGTTTGG GAGGCCAAGG TTGGTGGCTC ACTTGAGGTC AGGAGTTCAA GACCAGCCTG  
GTCAACATGG TGAAACCCAG TCTCTACAAA AAACACACAC AAAAAATTAG CTAGGCATGG TGGCACACAC CTGTAATCCC  
AGCTACTCGG GAGGCTGAGG CACGAGAATT GCTTGAACCC AGGGAGGCGG AGGGTTNCAG TGAGCCCAAG ATCGTGCCAC  
TGCACTCCAA GCTTTGGGGT GACCAGAANC GAGACTTTCT CAAAACAAA

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SEQ ID NO:1204: (Length of Sequence = 346 Nucleotides)

CTCTTTAGAA AGCCTGCCTT GGCTGGGCTT GGTGGCTCAC CTCTAATCCC AGCACTTTGG GAGGCCAAGG TGGGAGGATT  
GCTTGAGCCC AGGAATTINA GACTAGCTGG GGCAGTGTAG TGAGACTTTG TCTCTACCAG AAAAACCGGG CGTGGTGGCG  
CATGCCGTGA GTCCAGCTA CTGGGAAGC TGAGGCAGGA GGGTTTGCTT GAGCCCCGGA CGTGGAGGTG GCAGTAAGCT  
GTAATTGTGC CACTGTACTC CAGNCTGGGT GATAGAGTGA GACCTGTAT CAAAACAAAA CAAAAACAA AACCTGCCT  
TCTNGGATT GGGCTTCTGG GTTTT

SEQ ID NO:1205: (Length of Sequence = 292 Nucleotides)

TACAACGAGA CACTTGAGCA CACGGTACA CCCAGACATC TTCGGCTGC TATTGGATTG ACTTTGAAGG TTCTGTGTGG  
GTGCGCGTGG CTGCATGTTT GANTCAGGTG GAGAAGCACT TCAACGCTGG ACGAAGTAAA GATTATTGTT GTTATTTTTT  
TTTTCTCTC TCTCTCTC TTAAGAAAGG AAAATATCCC AAGGACTAAT CTGATCGGT CTTCCTTCAT CAGGAACGAA  
TGCAGGAAT TGGAAGTGA GCTGTCAAG TCCTGAAGAA GGAGATTGT TT

SEQ ID NO:1206: (Length of Sequence = 336 Nucleotides)

TIGCCAACAC AGTGTGTCAT GTTATTGGG CTATTCACAG GTAAGCTTAA AATACAATGA AAAGAAAAGA CCAGACGTCA  
TCAGGAATGT CGAGAAACAA AATATTTAGC ATTTCTTAGT TTCAAATGTT ACCATTTCAT TGCAGCTGAG GAATATAGGC  
CATTCGTTGA CATAACTGCA ATGGGTGAGA CTTATTTTTA GCCACAGGAA GCAAATACAT TTAACCAATG ACTTTTAGGA  
CAGGAAGCAA AAAAGAAAC AATATTTTCA TGTAGCAAG ACAAGANAAT CATTTATACA AATTAAAGTG GATATTAAAA  
TACCATTATA AAGAGG

SEQ ID NO:1207: (Length of Sequence = 319 Nucleotides)

TGCCTCANCC TCCAGAGTAA CTGGGATTAC AGGCGCCGCG CGCCACGCCT GGCTAATTTT TGTATTTTTA GTAGAGATGG  
GATTTTNCCA TGTGGCCAG GCTGGTCTCC AACTCTGAT CTCAGGTGAT CCACCTGCCA CAGCCTCCCA AAGTGCTGGG  
ATTACAGGCA TGAGCCACTG CGCTGCCTC CATTTCTTTT TTATAATCA TCCTGAACT CCCTTAAGGT AGAGAAGCTG  
TTTGATCGTC CCAGCCCCTG GGAGGCTGAA AGGTAACCTN ACCAGCTCCA TGCTGAGTT TAGCACCTGC TGTGCCAGG

SEQ ID NO:1208: (Length of Sequence = 357 Nucleotides)

GAGATGTTA AAAATGAAGT GGAAGTTTTT TGTTTTGTG TTGTTTTGTC AGAAAAAGA TTTTAAATGG CTGAATGIN  
CTGCCATAGT TGCGTCAGAT TGTGAGAAA TTATGTTGTA CATCTGAGAG AGAAAAGAAG AGCCTTTTGA GGAGCTGCCG  
TAAATTTATT TTTTGTITAG TCTCTTAACT CTTTGGCTTG AATGAGTCAT TGACTTTCTT TGCCAAGATA GGGTTAGCAT  
TGTTTTGTG TTTTAAAGC AGGCCAAGG ATTGCCACGA GGGGAGACAA CCTGAGCAAC TGAAGGAAG AATTCTAGA  
AATTGTGTTT ACCAGTTGTT TTAGTCTGAA TGTGATT

SEQ ID NO:1209: (Length of Sequence = 362 Nucleotides)

CCCATCTGCT CCACCCAAAG AATCAGACA AAGTAAATTT TATTGAGACA GACAGAAATG CACCTACTCA GGACTACAGT  
TAAGCATTTA CTAATTAACCA AAGAGTTGTG TTCACATTCC AGATAAGTCT ACGTGGAAAA GCATTGAGAA TTTACTAGGT  
TTTINCTACA TCACTATTTT ATCTACAATA GGGACAACAA ACTGACACTC AGGATTTGAT GGGCTCTCAT TACAATGCTA  
TACATTTAAC AGGNCNAAC ATCAGTGACT TTGAGGAAAA AGTTATAAAA NGACCAAAAC CACCCACTGT AGGATGGGCT  
CTTGATGTT ACTGTACAGC GTGGGTCAAG GTAACAAGGA GG

SEQ ID NO:1210: (Length of Sequence = 349 Nucleotides)

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GAGAAGATAG TAGAGAAAGT CAGCGTTACA CAAAGGAGAA CCAGGAGAGC TGCCTCTTTT GCCGCAGCTA CCACTTCCCC  
TACTCCCAGA ACTACAAGAG GTCGTAGGAA GAGTGTAGAG CCACCTAAGC GTAAGAAGCG GGCCACAAAG GAGCCCAAG  
CACCAGTCCA GAAAGCTAAG TGTGAAGAGA AAGAGACTCT GACCTGTGAG AAGTGCCCCA GGGTATTTAA CACTCGCTGG  
TACCTGGAGA AGCACATGAA CGTTACTCAT AGGCGCATGC AGATTTGTGA TAAATGTGGC AAGAAGTTTT TCCTGGGAAG  
TGAGCTGTCC CTTCAACAGC AAACAGACT

SEQ ID NO:1211: (Length of Sequence = 344 Nucleotides)

TTTTTTTTTT TTTTTCAGG GAAGAGCTTT ATTGCTTCCA TGGGGGTGGC CTGGGACGGC TGCCACAGCT TGGGTAAGCT  
CCTTGGGCTT CANITCCCTT TGGTCCAGGC TAAAGGCAGA ACCCAACCAC CTGGCAGINT TGTGTCTGAA ACCTAGAACA  
TGTGGCAAGT TGGTGAGTCC GGGCCTGCGG TAGTCTATG GNTCAGCTGC AGCTGTGAG GGGAGCTCTT CCCAGCAGGC  
GGANTGGGCG TCACCCTCCT GAGCTTTAAA GTTCTTTCTG CTATAGCCCT GGGGCGGTCT TGTGGCTCC GAAGGAATGG  
GCTCCAGGGT TTCCCATGG GACA

SEQ ID NO:1212: (Length of Sequence = 364 Nucleotides)

AAAGAAAACC TGGTATTTTC ACCATCCTCT CTGAAAATAA ATACTTTGAC TTGCACTGAT TACTACTTCA TCAGCATTCA  
ACTCCGCTCC GTGGCACTCT GTGTGAATAA TTTTAAAGGC AGATTAAACA TTCTAAAAAT AAATTCTATT GGTAAATTAG  
GATATCAGAT GCTTCCATTA TAAAAGCCTA TCCTATTCTG TACTCTCAGC TGGCAGTCAT ATCCAGATCT CAAGCTACTC  
TGGCTCTTAT TGAACAAGAA CCTATTCCAG GNGTGAGGT TTTGAAGAGG GGATCTCTCA TGGTAACTA GAGNCAGGAA  
GAGGCAGAAT TGCCACATA CTCTNGCAGG AGTTAAATAA CAAT

SEQ ID NO:1213: (Length of Sequence = 302 Nucleotides)

CTAATTTTGT TATTTTGTAGT AGAGACGGAG TTCTACCATG TTGGCCAGGC TAGTTTCAAA CTCTGACCT CGGATGATCC  
ACCGCCTCG GCCTCCCAA GTGTGGGAT TATAGGCATG AGCCACTGTG CCGGTTACT TTTTCTTTT TTAACACT  
GAAATTGCTG TATCTACCAC ATTAACATTT TATTTAAAAA AATTTGTAA ATAGCATATG TATGTAAAT TAATATTAAT  
ATACCTCTTT TTTTGTCTT CTTTAGGTG TTGGAGCCTA GGGATACTTA CTACTGATT TT

SEQ ID NO:1214: (Length of Sequence = 317 Nucleotides)

CTAATTTTNC AGACAGGTTT ACATGTAAAA GGCTAGGTAT TTAGCCACCT CAGCATTGAT TAGTTTGGGA TGTCTAAGCT  
CTGTACACA TGGCTTCCCA TGGCTTCACT CTACAAAACA TATTINCAAC GTGAAGNTA CATCTACAAG AAATCTACAT  
TTCAAGGGTT TTACAAATCA ATCTTGATC TTTCCTCTGA ATTGACTCTC ACAGACCCCG TCCCCTGTN ATINCCCTTG  
CCCAGCTTAA CGGTCCAAAG TCTACTTAAA TGCAGCTCAA AAATGTTAAG ATTGGGCAAC AGATTTACAG TTCTGT

SEQ ID NO:1215: (Length of Sequence = 276 Nucleotides)

ATAAGGTATT AAACAATAT TCTTGACTT GANTAAAAA AAAATCAAGC TGGGTGCAAT TGCTCATGGC TGTAATCCCA  
ACACTTTGCT AGGGTTAAGT GAGAGGTTCA GCCCAGAAGT TCAGTACCAG CCTGGGCAAT ATAGTGAGAC CCCTTCTCTA  
CAAAAAAAT GAAGAAATTA GCTGGGTATG GTTGCATGTC CTGTGGNCCC AGCTCCTCGG GAGGCTGAGG CTGGAGGNTC  
ACTTGGGCCC AGAAGGTCAA GGCTACAGTG AACCTT

SEQ ID NO:1216: (Length of Sequence = 354 Nucleotides)

GCATAGGCAG CCCCTGCTCT TGCAATTACC TCCCAGTGA ACTAGCTGCT CAGTCATGTC TCTGGAATAT GGAGTTGTGA  
TCTAGAAATT AAAGATGGGA TTAGGTAACC AGTGAGGTCC CTTCTACTGC CAGTGTATGA CTCTCTCTT TGTAAATGTC  
ATATGTAGGG TTCTGTACAC AGGACATTTT CTTCAATGTA GTTCTCAGA TGCATTGAGC TCTCCTGAAT GACTTAGCGG

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GGAAGCTCAG TTGCAGCTGA CGGTATTAAAG GGTCTCTCC CATGTGCTG TGCCCGCTCG TTAGCGTAGG ATTCNTGCCC  
CACGGCCCTT CCTGTTTTCT AAGGGCTGG CTTT

SEQ ID NO:1217: (Length of Sequence = 272 Nucleotides)

CTTCCAGCT TTGCTTGTT GTAAACAGCT GGCAGTGGT ACATCTATAT TTGTTAAGAG GCAGAGCACT GTATTTTG  
TAAGATAAGG TGCTAGTCTT GCCCAGGCTG CCAAGCTGGG GCTNITTTAA ATAAAAGTTT TAAAGAAAA TTATAGCATA  
ATAAATTACA CAATTTTATT GGAAACTGA AGGTGTTCAA CCAATGCTAG TTTTAAATA TATTAGAAA TACTATTCA  
GGAAATTTTA ACTACACTCA TTAGTCTTAT GG

SEQ ID NO:1218: (Length of Sequence = 281 Nucleotides)

GTGCCCAGG CTGCAGTGA CTTGTGCAA CGCGGCTCAC TGCGCCCCA ATCTCCCACT CTTAAGCAAT CCTCCACCT  
CAGCTCCTG AATAGCTGG ATTACAGGTG TGCACTGCCA CCCCCAGTA ATTNCITTA TTTGTTTTAT TTTTAGTGA  
GATGGAGTTT CGCTATGTTG TAAAGGCTGG TCTGGAAGT CTGGCCTCAA GCGATCCTCC CGCCTTGGCC TCTCAAAGT  
CTGGGGTTAC AGACGTGAGC CACCATGCCT GGGCTGCTC A

SEQ ID NO:1219: (Length of Sequence = 231 Nucleotides)

GTCTTCTCT CCTCTTCCC TTATTGGCA CTGCCCAGG CCAGGCAGCC AGCAGGGGAT GGGATCAGGA TGCAATTGTC  
ATGGAAACGG TTGGGGATCC ACAGGAAAGA CATTACATA GGGACATTIN TGAAAGCAA GCAAGAATGA NTGCTTTCCC  
GATCTCAGAC TGGCTGGATT CAGATCATG TTTTGGCTGG TTCTCATTTT AAGGGGTAAG CAGTTTGCTA T

SEQ ID NO:1220: (Length of Sequence = 409 Nucleotides)

AGTCACTCAG AACTTACTT TGCTTACAG CTCAATTATG TTTTGTGAT TTGTTAAGAT ATTCCGTGTG ATGACATATT  
TTGCCITAAA TTINCTAATT TTCTGGCCA TTGCTTCTCT GTGATTGAA AATGTTACGG TAAGTGCTTA GTTGGAAAC  
TATCTGTCA ACATATATG CATTACTCA GCAGAGCTGT AGTCCATAA CATAATAAAA TGATGCTTTT TTTAATAAGA  
AGATCATAA CATTTCATTA TGCCCTAAA GATGAACATT CAAAGTTCAC TTTTCTCTG TTTTGATATG ACGGATATAT  
ATCAGTAAAA TAAAAATGC TGCAGNACCA ATATGCACTA ACTCAACAT GCTGTGGATT TGTAGGGGCA CTGAGGTAGC  
AATGTCAAG

SEQ ID NO:1221: (Length of Sequence = 396 Nucleotides)

ATCTGAGATA CTTTGTCTC ATGAATAAAT TAGTTAGTAG AATCTAATTT CTAGATCCTT CATAATGGTA ATTGAGGGTA  
AAAAATAATA ATGTAGTAGT CAATTTTAGC CCTTTAAACC TATGGGGAAC TGTATGAATA ACTGTTTGAA ACTGCAGGGT  
AATCTGTCA CACTTGCAA CACATAGAAG CAACAAGACT ATTCTCTC ACACITTTAA TTAAATAGT GCCTGAGTAG  
ACTTCCAGG TAAGGTTTCA AATTTCIT TCTAATTTCC CTGTTTAAAT GACCACTACT TTTAAAGCTA TGCTGGGAAT  
TCACITTCAC ATATATCTAA CTACAGGAA ATTTTGAAG AGCCTAAATG TCTATGGGTA GATTCAATGT TTCCTT

SEQ ID NO:1222: (Length of Sequence = 350 Nucleotides)

GTATTTTCT CTGGTACTC TTCATGGCCT GCTAGAGAAC TTTACTAAAT TATAGTCCAG TAGCTGGACA GAGCTGCATG  
TGTATTGTCT AAGTCCACCT GTGCTGCTGG TCAAGATTAT TTGCAAGTGT TTGGTGGTGT TGAAGAGGAA TACTGTTGTG  
AAGGCTGAGT CAACTGCATG ACAATNCTCA TGGCTCACTG GCTGATGAGT TGTGGCATGA CTAGAAAGCT CTGCTGTGAT  
TCCCAGATGA CAAGTCACAC CTGAACAGCT GGATACTACT CGCATCCAAT TTGCTTCCAA GTTAACATAT TTNCAGAAAA  
TATTTGGATT TGGAGTACAT ACAAATATTT

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SEQ ID NO:1223: (Length of Sequence = 370 Nucleotides)

ATAAGCATAT GANITTTATCT ATAGGCCAAG TTAATGACAT AACTACAAAG AAATGACTTG TTTCACATGT TTTAAACCAG  
 TGTITTTGGCT ATACTAAGTT AGTGAGACAT ATTCTAAAGA AAAATAGAGA CGCAAAGAAG ATCTTACACT TTAATAGTCA  
 ATTTTGTAGT TGTAATATTA CTATCGATCA TTTTGTAACT CTCCTATATA GGGTGTAGGA TGGTGGAAAT AAGTAATTTT  
 NTTAATGTTG TTAGGAACCA AGGCTATCAG TGTAAATGA AGGAGTTACA AGCATAAGAT TGANAGACGG TAAGTAAAAA  
 GCTCATTAGT ATAGTTCCAA GTTTAACTTG TCAGGGATGA GCTCATGATT

SEQ ID NO:1224: (Length of Sequence = 188 Nucleotides)

ACATGACCNA GGCCTGACCA AATCAGACTA AATCCTANTA CCTATACCAG AGTTATTGAG AAAGATAAGN TTTGGCCTGC  
 NGGCCTTTGA CAGTGAAAGG NINTAGGCTT TGGAGCTCCT CAGGGCCACT GCTTCAGGGA ACCTTGCTGA CAGTGAAGCC  
 AACACAGATG AAAGCAAGGC CAAACATT

SEQ ID NO:1225: (Length of Sequence = 353 Nucleotides)

CCCCAGCCAA GGGAGGCAGT NAGTNAGTGT GGTACCCAGC GTGGGAAACC GTGCTTTTTN CCATGGNACT NTGCAACCCA  
 CGGATTAGAA GATCCCACTC AGGAACCCAC GNCACCTGNA CCTAGAATGC CAACCCAGA GCTGCACAGA TTCTAAACAA  
 CCTCTCANCT GGAATCTGCC TAACCCCTGCA GAGCTCCTGC GGGGAGGGGT GACCAGTGCC ACANCTGCTG CTGCCTGCTG  
 CCTAAGCCAT TTAA

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CAAAAAGTGA GAAACATG TAAACGTAAG TNATGAGGTA TTTCATAGAT ACAGTGCCCA TACAAATNCT CTTTCCACAA  
 ATTTTCAACT GCCAGATCTC TTGCTTTAGT CTTTTNCTT TATATTTGGA GAAACAGAAG AGTTTGACAT AAAAGTCCCT  
 TTGAGGATGT GAGGGTTGCA GTAGTTTACA GCAGGGTCAG AAAATGAAAG TAATAAAGCA ATATTTACAT GTTTTGTAT  
 AAGACCAAAA ATATTTCCCTT AAAAAGTTGT TAAAAGTTT TTAGTCTAT AAACACTCAC TTTTATAGGG CACATGATTG  
 TCTGTGTGAC TTCTCTTCC AGAGGAGGAC TTT

SEQ ID NO:1227: (Length of Sequence = 352 Nucleotides)

GGCATCTGTT TTTTGTGTTG TTTTGAGATA GAGTCTACT CTGTGCGCAG GCTGGAGTGC AGTGGCGTGA TCTCGGCTCA  
 CTGCAATCTT TGCTCCCGG GTTCAAGCGA TTCTCCTGCC TCAGCCTCCC AAGTAGCTGG GAGGTGTGCA CGCCACCACA  
 CCCCAGTAAT TTTNGTATTT TTGTAGAGA TGGGGTTTCA CCATATTGGC AAGGATGGTC TCAATTTCTT GCGCTTGTGA  
 ATCCGCCCCG CTCAGCCTCC CCAAGTGCTG GGATTCCAGG CGTGACCAGG GCGCCCGGCC GGNATCTGTA GATTTTAAAA  
 GGCCCCAGTG GTTCINATGC ACACCCCCAG AG

SEQ ID NO:1228: (Length of Sequence = 387 Nucleotides)

AGTTTTCCTAA GATTGAGTGA CACTATTGTA ATGAGAATCT TCACTGGAGC ATCAGAAGAA CTGATTTCAA GCCAGTTTTC  
 TTGGTCAGCA CGGTCAAAAC TTCAGAAGAA TCTGTGCTC TGAGGCTTTC CAAAGCTTTG TTCCCCAGGG CAGTAACAGC  
 TTCCAGTGTG GGCAGAGTCT TTAGTATTAT CACCAGGGCA GCTGCACGTG GGCTGTAGC CATCTTTCTC TTTTAGTACG  
 ATCCACCTG TCAGACTTCT TGAATTTGCA CTTCAAATTA GAGCCACAAT CAAATTATCA GTCACGNTGT TTATTTTGTG  
 CACCAGAGAA AGGACAGAGT CTGTTTCAGC AGAGTTTGA GCCAGGTACT GATCTCTCTT CAGCAGG

SEQ ID NO:1229: (Length of Sequence = 366 Nucleotides)

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CTGATAAGGA GGTAAATTCA TAGGAGCTGC TAAGATGGGC ATGAGGNTCA AACTGCAAAG CACCAACCAC CCCAACCAACC  
 TGCTGAAGGA ACTCAACAAG TGCCGGCTCT CAGAGACCAT GTGCGACGTC ACCATTGTGG TGGGGAGCCG CTCCTTCCCG  
 GCCACAAGG CTGTGCTGGC CTGTGCAGCT GGCTACTTCC AGAACCTCTT CCTGAATACT GGGCTTGATG CTGCCAGGAC  
 CTATGTGGTG GACTTCAITCA CCCCTGCCAA CTTTNNAGAAG GTTCTGAGCT TTGCTACAC TTCAGAACTC TTCACAGACC  
 TGATCAATGT TGGGGTCATC TACGAGGTAG CTGAGCGTCT GGGTAT

SEQ ID NO:1230: (Length of Sequence = 343 Nucleotides)

AGTGGAGAGA AGCCCTATGA ATGTTTGTAG TGTGGGAAAT CGTTTGTCTG GAGCACAAC CTCATTGAC ATGCCATTAT  
 CCACACTGGA GAGAAGCCCT ATAAATGTAG TGAATGTGA AAGGCCCTCA GTCCGAGCTC GTCCCTCACT CAGCATCAAA  
 GGATGCATAC TGGGAAAAT CCCATCAGTG TAACAGATGT GGAAGACCT TTTACAAGTG GACAAACCTC AGTTACCCCT  
 CGAGAATTN TTTTAGGGAA GGACTTTTGT AATGTAACCA CTGAGGCAAA TATTTTCCA GAGGNAACAT CTCCTCTG  
 ATCTGATCAA CCATACCAA GAG

SEQ ID NO:1231: (Length of Sequence = 406 Nucleotides)

CTCTGCGCGG GCAGCTTGA GAAGGCGCAA TACTCTCCAG CTCACCGTT ACTTCAGCAT GGCTGGGGAG GCCTTGGAAA  
 ACTTATAATC ATGGTGAAG AGGAAGCAA CATGTCTTC TTCACATGAC GGCAGGAAG AGAAGTGTG AGCAAAGGGA  
 GGAAGCCCC TTATAAAACC ATTAGATCTT GTGAGAACTC ACTATCATGA GAACAGCATG AAGGTAACCG CCCCATGATT  
 AANTTACCTC CCATGGGCTC CTCCTCCGCA GACGTGGAGA TTATGGAAAC TACAACCTCA GATGAGATTT NGGTGGGGAC  
 ATAGGCAAC CATATCAATG TACATGTGTC TTTATGGTAG AATGATTTAT ATTACTTTAG GTATATAGCC AGTATTGGGA  
 ATTGCT

SEQ ID NO:1232: (Length of Sequence = 380 Nucleotides)

AGACCATCAA AGGCCAGAG GAGAGACTCT TGGGACAAAT AAATATTAA AAGCAGTTGC CTATGAGAAA ATGGAAAAAG  
 CCACAAGCAA AGGTAAGATC CATGCTCCAA AAAGGCTGA GAAATCTTA AACCTTCTCC TCAGATTGAT CCCAAGCTT  
 AGAACGAATA CCAAGATAAT AGCAAAAATC CTCCTGGAA AAGAGTCAGT CTGCAAAAAC CGGAAAAGGA GGTGTGTTTT  
 TCCACAATGC CTAATTTCTA ACAACAACAA CAAAACTCA GAAACATGG CCAATAAGT GGAAGAAAAT AAAGTGACGG  
 AAACCTTCCC CGGAGGAAAC ATAAGCTTCA GGCAAACTAG ACAGATTTTA GACTGTCTAA

SEQ ID NO:1233: (Length of Sequence = 357 Nucleotides)

TTCAAAGTTT ATCACAACCA CCACATCAA GACAGCAAAC CAAAGGGSCA TGGTAAAAGA AAGITCCAGT GACTCTGGAT  
 TTGGTTCTAA TTTAATGCA ACTTCTGAT TGAGTGCAGG GTCAGCACTA CTTGGAAGTG GCTTTGGCGT TTCANCGGTG  
 GGTAAATGGAG ACAATTGCCAA ATTTATATTC TGTAAATTTN CGTTGGGTGA GGGGAGCATT ACATCATTTAT ATAATGGTAC  
 TTCTCAAGT TGCTGGTCAT CAGTTTCTGT GTCTGTGCTG CAAAATCTA AAGATATGAT TGTNICTCCA GGGCTGGGG  
 CCAGCAAAGT TAAAGCATCA GGTTCCTTCT TAAGTTT

SEQ ID NO:1234: (Length of Sequence = 313 Nucleotides)

CCAAGAAATC TTAATNCTT TATGTGTTGA CTTTTGACT CAACAATTTT TTTAAACTT TTTGTTTTTT NCTGAAACGT  
 TCTTGTGTGT ATGAGCCTTT TGTITGINC TCGTTAAATG CACTCGACCC AAAATGGTT TGGCATATCG AAAAGGAGAC  
 CAAGGAGGGA GGGCTGGGG CGTGGGAGGT GGGGAGGAGG CCGAATGGA CAGAAAGTTG AGGATAAGAG AAGAGGAACA  
 TAGAGACAGC CAGAAAGACA TGGGAAAGA GTGTTGAGA CAGAGAAAGG GGAAGGCAAG GGAAGCCAA AAG

SEQ ID NO:1235: (Length of Sequence = 386 Nucleotides)

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CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGTNCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG  
 CTGCCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTTG TGACTCTAAG CTCAGTGCTC TCTCCACTAC  
 CCCACACCAG CCTTGGTGCC ACCAAAAGTG CTCCCCAAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA  
 TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCCTGGGTA ATTTTGTAT TTTTAGTAGA  
 CACGGTTTCA CCATGTTGGC CAGGCTGGTC TGGAACTTCT GAGTGTAAAT GATCTGCCCA CCTTTG

SEQ ID NO:1236: (Length of Sequence = 401 Nucleotides)

AGGATGTACT TCTAGTAATG TCACTGAAAG CAGATATCAA AATTCAATTAC CAGGAGTACT TTGCTGTGA ATGGTTCCTG  
 TGCCATACAG AGATAAGATG GAGTCTTTGG AAAGTTGTTT CTTTGCCACT TCTTCTGATT TTNTAGTTTG CTCAGTGAAT  
 AAATCTAGAT CCCAGATGT TACTGTAGAC AGGGTTCAG CTGCTGGTGC AGAGGGTGTG CCTGTAGACA AACACCAAAA  
 TAAGCTATCA AATTCTGCAT AGTAAAGCGC ANTTAATCCA TTACTTAAAA TCCAAATAAA GTTATAAAAT TAGATAGGAA  
 TCAAACAATT GTAGAAGGTA AAATGGTGCC ATTCAAGAGG ATCATTACA AGCCAGCCC ATATAAAACC ATCTACAATC  
 A

SEQ ID NO:1237: (Length of Sequence = 372 Nucleotides)

TTAACTCTTT CINTCTTCA GTCCGATTAT AGAGTTGGAG CAAATGTCAT GATGANTTTT NAGGCCTAGG CCTGGNCTCT  
 TGAGGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT TTCTTTCTCC ATAATAGTCC CAACCCATAA CAGGGGTATG  
 GCACAGTACT TCTTATGAAC AAAAGTGCTA TTGGTCTACA AGGGGACTTG AGCCTGCACT AATTGTATTT GATTAGGATT  
 TTGTGCTGT CTGTATGATG TTTAACCACA CIGTCAATTA CAGACTTCCT TTAAGGAATT TCCAGGAAAC CCCCTTACCA  
 TAAGAGTTTA AATTAAATAGT TTNCTAGTTT AATGACAGCA GTTGGTAAAG GA

SEQ ID NO:1238: (Length of Sequence = 304 Nucleotides)

GGACAAAATT CCAATTATG TAAATGTAAA AGAAAAGACA ACAAAAATAA GCTAGAAAGA TGAAAGCTAA AAATTCTATT  
 TGAAGTATGT AAGATGATGA CAGATATTAA ACAGTAATTA GTCATGAAAC AATCATTTAA ATGCTTTTNC CAGGGGAACT  
 GCAGAAGTTG AGACCTCAA AGAGCATGCA AGCTAGTAGG GAGGCTGCGA CTCATACCTT TGAATCTTTC TGTCTGCAA  
 ATTCTCAACT CTTACCAATT TAACTCTGCA GTACTGCTAT GGAAATTACA TAAGAGTAAA TTGG

SEQ ID NO:1239: (Length of Sequence = 389 Nucleotides)

TGTTATAACT GGCACITTA TTTGTTTTTG GAACTAGAAT TTAGGGGCAG TTGGATGAAA TTGCAAAATT AGAAGGGGAA  
 TAAGAATTC CTAGTGCTAT ATAAAGAAAT GATGATGGAG ACAAAGCCT TGCTTTCTC TTTTTAGAAT TTATTNCGA  
 TTTNAGCAT ACTGTGGGGC TTITAGAGCT AATATGATCT AAATNCAGAA AATTTAATTT TCATAGTAGG CCAGGTGTGA  
 ATTACTTATG TTTGCTATAG AATGCTTATT TAGACTAACA ATAAATTTAC TTTGCTTTCT AAGGCCAGTC AGCGAATGTG  
 GGGATGAGGC AGGATGTTTT AAATGAGCCA GAGATGATCC NCAAGGGGAA CAGTCGACAC AGAGGTCTT

SEQ ID NO:1240: (Length of Sequence = 365 Nucleotides)

CTCCAGCCTG GGCAGACAG CAGACTCCG TCTCAAAAA AAAAGCCTTC CTTGCCAGGT GAAAGCAAGA GTGGTATGGA  
 ACATTTATTT AAACATAAGA AGCAGAAGGT TCCTCTCTT GCAAGTATGT TTTCTCTAAA TGTAGCATTT CCACTGGAGG  
 AGGTGGTCTG GGTGGATGTT TAATATGTGA GGATTGTCNA GCCAGGCAGA TAACCAGGCC TCTGCATATA CAGATACCCA  
 CAGCCAGGA ATCTTGAGAA CTGAATGGCC CATAACAACC TCTGGCACTA TCGAGCTGC AGGGAGGCTT GGCTGGGGCT  
 ACTCCAGTCT CAGGCCCTG TTTTLAGCGG GAAGTCACAA GGAGG

309

SEQ ID NO:1241: (Length of Sequence = 350 Nucleotides)

GGGGAGGCGG TAGGGTCTGC NCTGTCTGTN AGGGGCTTGT GGCTTGGCGG GTGGGCTTTG CATGGTCTCG CCTCTTGAGT  
 CCAGCCCCGT CCTGATGGGG CAGACTTCTG TNCGTNCTGC TTCTTGGGTG ATGTCAATAC TGAATGAGAG GGCAAGAGAA  
 GGGGAAAGGG AACCGCCCAT ATGTNCTTCA CGTGTGCAA GGGGGCTGTN TGGTTCCCAT GAAATGGTCA GCAGAGACTT  
 TGGGATGGGT ATGACTCGTG GGTACAGGG TTGACTAGAC AGAATCTAAA GAAGGTGGGT GCTTAGCTNG GAAGTCTTCA  
 GTAGGAACGG ATCACTGTGA AGCTCTAGGG

SEQ ID NO:1242: (Length of Sequence = 392 Nucleotides)

CTCTTACGAG TGAGGTTAAG TATTGAACAG ATATTTAAAA GCTATAAGCT TTAAACAGA ATAGGCATAT TGCTGATACC  
 AGTATTGAC AACCGCCTTG TTTTTCAGA TAAGAAACT GAAGCACAGA GACCATAAGG CATCAGCCTA TGGTCATTCA  
 CTTCGTGGTA GTCAGGTGG AGGTACACC AAGGCCCTCT GGCTACTGAT AATCTCTGTA CTAGGCTGCT TTTAGTAAA  
 CTCTGAATG AATGAAAGAA AGAACACATA CTGTTGACTT TTGAACCTGA ATCTAAACAA AACCTATGTT GAACTTTAAG  
 TCTGTAATCT AAGAACTATC AAACCTAAAC TTGTTACAAA AGGNGGTGAT GAGCACAAAC ACTTTCTTTT GG

SEQ ID NO:1243: (Length of Sequence = 377 Nucleotides)

GTGGGGCAGG CGTGAGGTAG GGTGGGGTG GGGATGACAG TCAACACAGC TTGGACCAGA AGCCCATGGC GCCTGGNTCC  
 CTGGAAAGGC ACAGGGCACA GACGGATGCC GCCTTTNITG CTGGACACT CCGCCACCA TCCACAGCTC CCCGCTCACT  
 CCACGTTCTT GTACTTGGTG AACAGGTGT AAAGAACCCT CAGGGTGGAT TTNAGGTCCA AGTTAACCAC GTCTTCAGGA  
 CGAGCCTTGG GTTNTTNAG GCTCCGCTCC AGCATCAGCT CAAAGGCGAA GGACACATTN TGGACCTTCT GATCGAAGCT  
 TTCCGGAGTC AGGTAGAAGT GTGGAGAGG AACAAAGTAG TCTCCAGAA GGCCCAT

SEQ ID NO:1244: (Length of Sequence = 312 Nucleotides)

ATTTTTCAT CAATGTTTAT CAAGGATATT GGTCTAAAAT NCTCTTTTC AGTTGGGTCT CTGCCAGGCT TTGGTATCAG  
 GATGATGCTG GCCTCATAAA ATGAGTTAGG GAGGATTCCC TCTTTNCTA TTGATTGAA TAGTTTCAGA AGGAATGGTA  
 CCAGCTCCTC CTGTACCTC TGGTAGAATT CGGCTGTGAA TCCATCTGGT CCGGACTT TTTTCTGTTG GTAAGCTATT  
 GATTATTGCC TCAATTCAG AGCCTGTGT AGGTCTATT AGAGATTCAA CTCTCTCTG TTTTAGTCTT GG

SEQ ID NO:1245: (Length of Sequence = 320 Nucleotides)

GGAGATCGTG CACATCCAGG CCGCCAGTG CGGCAACCAG ATCGGGCCA AGTCTGGA AGTCATCAGT GATGAGCATG  
 GCATCGACCC CAGCGCAAC TACGTGGCG ACTCGACTT GCAGCTGGAG CGGATCAGCG TCTACTACAA CGAGGCTCT  
 TCTCAAGT ACGTCCCTCG AGCCATTCTG GTGGACCTGG AACCGGAAC CATGGACAGT GTCCGCTCAG GGGCCTTTGG  
 ACATCTCTC AGGCCTGACA ATTATCTT TGGTCAGAGT NGGGCGGCA ACAACTGGGC CAAGGGTCAC TACACGGAGG

SEQ ID NO:1246: (Length of Sequence = 275 Nucleotides)

TTTTTTTTT TTTTTTTTT ATCTGACAGC AATAGATTTA TTAAGTATCC CCGAAAATAT AAACACAAAC CAGTAAAAAA  
 CAAAACCGTA AAACGTCAGG CCTGGAGCTG CAATAAGACA GAGACAGGAG CAGCTCACAC GTGGCCTAGG TGGGGAGGAC  
 GAGGCCATAA ATACTGCAGG AGGCGGCAA GGGAGCCTA GGGCGAGGG AAAGCAGGT NTGGCAGCG AGATGGCTCC  
 GGGGTTTAG AACTGCTGG CTTCGGCCCC GGCCG

SEQ ID NO:1247: (Length of Sequence = 384 Nucleotides)

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GGTCTTGCCG GAGAAGTACC CCCCTCCAAC CGAACTTTTG GACCTGCAGC CCTTGCCCGT NTCTGCTCTG AGAAACAGTG  
 CCTTINAGAG TCTTTACCAA GATAAATTTC CTTTCITCAA TCCCATCCAG ACCCAGGTGT TTAACACTGT ATACAACAGT  
 GACGACAACG TGTITGTGGG GGCCCCCAGG GGCAGCGGGA AGACTATTTG TGCAGAGTIT GCCATCCTGC GAATGCTNGC  
 TGCAGAGCTC GGAGGGNCGC TGTGTGTACA TCACCCCAT GAGAGCCCTG GCAGAGCAAG GTATACATGG ACTGGTACGA  
 GAAGTINCAG GACAGGNTCA ACAAGAAGGT GGTACTINCTG GACAGNCGAG ACCAGCACAG ACCT

SEQ ID NO:1248: (Length of Sequence = 225 Nucleotides)

AATTTGGAGA AGATAGAAGT TTGAAGTGA AACTGGAAG ACAGAAGCAC GGAAGGCGA AGAAAAGAAT AGAGAAGATA  
 GGGAAATTAG AAGATAAAAA CATACTTTTA GAAGAAAAA GATAAATTTA AACCTGAAAA GTAGGAAGCA GAAGAAAAA  
 GACAAGCTAG GAAACAAAA GCTAAGGGCA AAATGTACAA ACTTAGAAGA AAATTGGAAG ATAGA

SEQ ID NO:1249: (Length of Sequence = 393 Nucleotides)

CATCTATAGT CCATACATAT CTATAATGGA CAGAAATATG AGAATGAATA AGCAAAGATA CITATGTACA CCAATAATAA  
 AGTAAGAAAG GTAAAAAAT TCATGTAATA AGAAAAAATA ACAACCCAGA AATTTAAGAN TTAAGTAGTA GTCAAATCTA  
 ATTGGAATAA CTCACCTATA TAAANACAA GAGGAAGGAA ACTTTATACA TAGGTCTGGA AAATATCACA ACTATGTTCC  
 CAGAAGANTG TTTATCTCCA CAGCATCCAA CCTAGTGTC TGCACACAGT TGGGACTCAG CCACTGTTCG CTGATTGATT  
 ATGAAGNCAG TCACTGTGAT CAACCCAACA GTAATTGAAC GTTCATTTTT AATANGGTCA GTGTTAAATC TGT

SEQ ID NO:1250: (Length of Sequence = 391 Nucleotides)

CGTATGTATC TTINATTTAC ACTGCACACC TTGCAGCATC CITACCTTGC AGAGTACTGA GTCTGGCTT CATGAATTIN  
 ATGTCAAGTA AATGGGTTTT AGTCATCCCT AGTTCATGTG CATGTINCCGA GAAAAAGGGG AGCTTCTAAA ACATGTGCGC  
 AAACCACAGG AAACAGTGCA ATCCTGTGTG TCTCCTATTC CACTTACTCC TCAAGGCCCC AAGGTAGGAC GCATGTTTGG  
 TGGCTTCTG GCTTACAAAT TCCAGTGCCCT ACTCCCATTC CCTCAGAGGT TTGCTGTGAT CACTGAGGGG AAGCAGAATG  
 GAGCATCGTG TGGTCTTAC TGGAGGACTC CTGCAGCAC CTGAAACAAC CCAATGTTGT TAGAGGCAAA T

SEQ ID NO:1251: (Length of Sequence = 320 Nucleotides)

GCCTCANAAG GTCCTTCCCA GGCTTCTCGC AAAGGAAGGC ACTGCCTCTN CACACCTTGT GAAACCTTTC CAGGACCTCC  
 CAGTCAGAGG CGTCTGGTT CTCACTGTCT GCAGAGCGCC CTACAGCCTG TCTGTGGGTG AGCGTGTCTG TNAACTCTTG  
 TCCATCTCTT CTGTGATCTG TGTGCTCCTC GAAATAACTG ATTTTINCTC ATACACCTTG GAATCCTGAG TCCACAGAAC  
 AGAGGCTCAT ACAAAGGAAG CTTTCAAAGA GTGCTCATCG ATTTCTAGGN TTCITGAAGA CAGGCACCAN GTTTGTCTT

SEQ ID NO:1252: (Length of Sequence = 367 Nucleotides)

CAAAAAACA AAACCAGTTA TGCAAAAAACA AGAGTACAAA ATGCCCTTTT CTGAAGCTCA GTTTGAGAAA CTGATTTGCGN  
 ATCTAGCITA TTGATTATAC TCAGTTTCAA TTCTCCCTGT GCAAATAATA CATAAAGTCA TTAATGATGA TTTGATGANC  
 TGAAATCATC TTCGTTAGG ATCGTTTGAC ATCATAACCC AAATATAAAA AAGTTATTCA AGATTACAG AGATAAACA  
 GTGCCTCGGA AACATAATT ACCCATGTAT ATATAATANT TTTNGACAT ACTTTTAA CATAAAATCA CAGTCAAGGC  
 AGTGATAGCA TTGCATACTC AGTGCAATTAT TTCATGTAGT GCCTTCC

SEQ ID NO:1253: (Length of Sequence = 393 Nucleotides)

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TTGCTTTCAA GACAACACTC AGTTGCTAAA CCCATTTCCCT TTCTTTTAGG ATATTTTCAT TGCTCCGAA TTTTAGAGCT  
 GAAAAGTGCC TTAGAGATCA TCTAGTTCAA CCTCTCCGTT CAAATGGAGA ACCTGAGCCA CTAAGNTTCA CAGGNGAGTA  
 AGATAATTGA GCAACAACCT CCAAGTAATG ACAGAAAATT ATAGGAGAAT CAGTACAAAC TGTGAGAATT TACTATGTTG  
 TTAGCATCCT AAGTATGAGT TTAGAAAAGG TAGAAGTTAT AAGAAAAGTT AAATTGTTTT AATATGAATG GGATTCCACT  
 GTTACCTTCA NGNTAAAATG GAGACATACT TTTTNCITTA GGTATTATAG TTAAACGAAT ATTGTATCCN GTG

SEQ ID NO:1254: (Length of Sequence = 377 Nucleotides)

CAAAAGCAAG GAGATGAGTT GAAAGACAGT TTTCNTTTAA GTCATCAGTA TGGGATGTCA GCAGAACAAA AATTAAAAAG  
 ATTAATTTNC CTTTGTGCTT AAAACTTCCT TAGTTTGAGC AGTAGGTGCT ACAAATTAT TTACATATCT TAGTATCATA  
 GTTAAATGTA ATGTGTTTAG GAGAGGAAAA CAAAGATAC ATTTCNTTTA AATTCATTAA GAAATTTTCA AATTCACTTT  
 GTAGCCCATG CTGNATAGAA TTGGGCTGTG TTGGTACATT TGAAACACTG TTTATGTTGC TTGAAACACT TATTTNTTTA  
 ATGCCCGATG TGATGATGCC TATGGCCGAG ATCANATATA GCTAGATTGG CTAGGCT

SEQ ID NO:1255: (Length of Sequence = 307 Nucleotides)

ACAAATGTTA GCCTTCTCTG GCCTAGAAAA AGAATAGGNT CATCAAGTCA TAAAACGAAG TATGINATIT CAGCACCTCC  
 ACAAATGGC TTCATCAAAG AAGAGAATCC CATCACATGT TACCTCTCCT CTCTAGGTTC TTCAGCTGGG GCCTTGCTTG  
 CCCCTCTACC TATGGCAGAA CCCACTGACT CGTGGNCTTT CCAGCACTTC CACTTGCTTC CATTAGACAC TTAACCCGCG  
 TGNCOGCTGC CTCATGCCAG GGAGGGCCAA TCTCCAGNCA ATGCTNCTGC TGGCTGTATG ATGACTG

SEQ ID NO:1256: (Length of Sequence = 326 Nucleotides)

TTGAGAAAC TGCAGAAGCT GGAAGGTCAA TCTCTGACCT TCTTTCTGA GACACCTTCA TGTGACAGGT GTCCCACTTT  
 ATGCTTGGAG GGAAGGAATG ATAACACAAA GATACCAAGA AGAATGTGAA GAGACCTTTC TCAGTTCGCC CCAGTTCAAG  
 ACCATTATAT CGTACCCACT TTGTCTAAT CANGCTTCTA TATGACTATC CATTCTTTAT CAAACTAAA CATAGAAATA  
 TACGATTATC TCAATTTCTG TCITTGMITC TGAAGGCTCC TGTGTCACAT AAAACTTACA TTAAATAAAT TTGTATGICT  
 CTCCTG

SEQ ID NO:1257: (Length of Sequence = 224 Nucleotides)

TTTTTTNAGA GGGATTCTCA CACAGTCACC CAGGCTGGAG TNCAGTGGCG TNATCTTGGT TCACTGCAAC CCTGCTTNC  
 NGGTTTCAAG CGATTCTCCT GCCTCAACCT CTCGAGTAGC TGGGACTACA GGCACCTGCC ACCATGCCCA GCTGATTTTC  
 CTGTTTINAG TAGAGACGTT GGCCAGGCTG GTCTCTTAAC TCCTGACCTC AGGTGATCTG CCGG

SEQ ID NO:1258: (Length of Sequence = 329 Nucleotides)

CAGGGGTTTC TTTCCTTACC CTTTGTGAAA ACCAATCAAT TACTAGATGA GTGGATGGAT GCAGAAAAAT CTGGGCTGAG  
 CCAAAGTCCC TTTTGGAAAT ACAAGCCATA ACATTGGAAG GACATCAGCG ACCTTGGCTT GTTTAGGTGA TTTTNCITCC  
 AGCTGCAGGT AGTCTTGACA AGGAGCGTTT AANCAGAAGG CTCAGATGC ATTCTTGTG TAGGTGGGNG AGAGCACTTC  
 TAATGTTAAG TGGGGTACAG NTCAGCTGCC CCCCCAGTA GCCTGGACAT CGTCTTNTCC CCATAATCCT TNNCATCCCT  
 ACAAGGTCC

SEQ ID NO:1259: (Length of Sequence = 374 Nucleotides)

GGTCATATGT TACATGCATG TTTGINCAAT ATGTGTATGT CAGGNCATC TTCACAAATT TNCATAGCCC CTCTGTGAT  
 CTGTTAAATA GGTATATTTA GCCAACCTC TCAGCATAAA GCTCTACCC CAGCTGCTCC CCTTCCAAG TGCTGCATC

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TGCTCTTGGC TGGGAGCTCG CTTCACAGCC TGTAGGATGG CCACCTTGAA GGCTGTAACC CTTTGAAGA AATAAGTCT  
 CCTTTTCTAA ATTTATAGAT TGTATGATTG TTTTAAAGTA ACAATAGCAA TGGCATTATC ACCTCACTTT CTGTGTGTGT  
 GCTTAGCATA GTACCTGACA CATGGCAGTT GAGTTGGTAG CTATTTTTTA ATAT

SEQ ID NO:1260: (Length of Sequence = 353 Nucleotides)

CTCAGTCAAA AATAGCAGCT GCTGAATTAG CATGGGCATA CCAGGCAAAT AAGCCTGCAT TGTCATAGCG TTCCCTTGAT  
 TGCNCTATGA AACTGAGTAA AGTTTCATTT CCTGATTCAA GAATTGCAGC TAAAATATCC TCTGGACAAA GAAGAAGGGA  
 AATTTTTTGA TAACAGATGT GTTGACTCCT TACAGTATAA AGCCAATTTT TGTCATATCT CACCAACAAT CCTGGTTTCT  
 ACAGTACATC AATTTTAAGT AATGTGCCAA ATCATGGCAG CAAAAATATG TTCCCTCTAG CTGTTAGGGA CTTTGACTTG  
 NAAAACAGGN GTTTCAAATC ATCTTCTTCA TTT

SEQ ID NO:1261: (Length of Sequence = 294 Nucleotides)

TTAAACAGA CAGCTAAGAT TATAGGAATA TTTTAAATA ACAGCATTTA TTTTAGACAC ATTTCAAATA GAAGCCACAA  
 TAATCAAATA GATATATCT GAAAACGTTT CAAAAATATT AACCTTTTAA ATGTCTTCT CTGAAAAATT AGTTTATCTT  
 TAACAAATTA TTCTGAATTA TTGTGTCAAC ATATAAGGTT ATGCATATAT ATNCACTTGC TGGTCTCTAT GTTAAAGCAA  
 ACTAGGTAAA AACTAGAGGA AATATCTGGA NCATAAAATG GTTAAACAATT TACG

SEQ ID NO:1262: (Length of Sequence = 292 Nucleotides)

ATGATGAAGG GTTGGAGTGA TGCACCTAGA AGTGAAGGAA TGCCAATGGT TGCCAGCAAA GCACCAGAAA CTAGGGAGAA  
 ACAAGGAAGG ATTCTNCCAC AGTTTCAGAG GGAGAATGGC CCTGCCAACA CTGTGATTTT GGACTTCTGG CCTCCAAAAC  
 TATGAGACAA TAAATNCCGT TTGTCTTAGA CCACCCAGTT TGTGGAATTT TTTTACAGCA GAACTAGGNA ACAAATACAG  
 TTTTTTTTTG CAGTAAAGAA GTTTTAAATC TGGGTTATGT CCAATGTATC AA

SEQ ID NO:1263: (Length of Sequence = 303 Nucleotides)

GGTGAAGGTT GTGGGTAGGA TGAGAAGACG ACAGGATGAA TCTTACCCC CAGCTTTAGT GGAATTCTGT GAAACACCTG  
 GGAATGTGTT AGCATCAGGA GAATTCCTCT AAGGTATGAA GAATGACAAC CTGGGACCTT TCTGTAGGT GGCTCTGAAC  
 CTAACATATC CCCAAGATT CCCAAGTGGT AGGAAGGAGG GGGTGCAGAG GGATATTAAT CATGGTCATT AAGTCTCAAA  
 ACATTTCTAC TTCAAGTGAA TACATTAACC ATGCTGAGGC AGTTGAACAA CTGAATGCGT AGT

SEQ ID NO:1264: (Length of Sequence = 313 Nucleotides)

GGGACTACAT CAAGCACCTG CGCGACATCT GCGAGGGCTA CGTCGGCAG TGCCGCAAGC GCGCAGACAT GTTCAGCGAG  
 GAGCAGCTGC GTACCATCTT CGGGAACATC GAGGACATCT ACCGCTGCCA GAAGGCCTTC GTGAAGGCCC TGGAGCAGAG  
 GTTCAACCGC GAGCGCCAC ACCTGAGCGA GCTGGGTGCC TGCTTNCCTG AGCATCAAGC CGACTTNCAG ATCTACTCGG  
 AGTACTGCAA TAACCACCCC AACGCCTGCN TNGAGCTCTC CCGGCTTACC AAGCTCAGCA AGTACGTGTA CTT

SEQ ID NO:1265: (Length of Sequence = 290 Nucleotides)

TTTCTATGTG TAAGAGAAAA TAGAGATGGG TATACATACT GTTGTITTTT TTGAGCCGAG AAACGTGTGT ACCGGGGCCT  
 CAGGTGGTGG GCATTGGGGG CTCTCTTGC AGATGCCCAT TGGCATCACC GGTGCAGCCA TTGGTGGCAG CGGGTACCG  
 TCCTTINTTG TTCAACATAG GGTAGTGGC AGCCACGGT CCAACTCGCT TGAGGCTGGG CCCTGGGCGC TCCATTTTNT  
 NTTCCAGGAG CATNIGGTTT TTTGGCGGA CCCACGAGC CTTGAGGATT

SEQ ID NO:1266: (Length of Sequence = 322 Nucleotides)

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CGGACAGATG TCACTCTCGC CCGAGAAGGG GGACACTGTG ATGGTGTCTT TAAGCTCATA GAGTGGCAGG TTGTCTGAAA  
TGCCACCATC CAGTAGCGC ACCCCCTGGA GGGAGGGAGG GATGAGCCCA CAGTACAAGG GGATGAAACC NCTGCAGACA  
TTGGCCTGGA TGAGCTCGTC CTGGGAGTTN AAGTGGGATA TAATGACATT NTCGCCGTCT GACACGCCGG TCAGGGAGAT  
GCCCAGGCGC CCACTGGCAT GCTCATGGCT ATCAGCAGGC AGGACCTTNA GCAGGAAACT CGGGATGATC TTTTACCAGG  
TT

SEQ ID NO:1267: (Length of Sequence = 310 Nucleotides)

GTAACCCATC CCATAGGGTT GTNCTATGTA TTCTTGCCAG GTGGGGTTGG AGCACCTTGT GAGCTCAGCA GCCCAACATC  
GATAGTAAGG GAGTCAGGGT TTCTTCATCT TCCCTAGAGT TAGAACTCAC TTCTACAGCC ACTGTGTGAG GGACCACITTT  
GAGCGCCCTT GGCACCTGCT GGCTGAAAT CAATTTAGCT GTAATGGATC TGGCCAGCT TTTCTCTCTT TGGGTCACTT  
GCACTCATAG TGGTTGAAGC AAGATCTACC AGATGGGGAC ATTGAGATGG TCCCTTCTC CTCTCATTTT

SEQ ID NO:1268: (Length of Sequence = 338 Nucleotides)

GGGCTGCTCG TGAGGATGGG ACAGCATTGA CTTACTGGGG AGACTCCCTT GATGACAGCC TTACACGGTT ATTCATAAGG  
AGGCAGGAAG AGGCGCTAAC AGTAAGCATG TTCTGGGGT TCTTCGGGGT GCACATGTGC AGCAGCTGTA CCTGCTTGCT  
TGTTATGTTAC ATGTCTCATT AACATCTGAA ATCTCCACCC GGGAGTGTGT TTTTINACTAT TATAATGAGC AAAGGTTGAG  
TCTGAGGACA GGTAAATCA AAAATGTGCA CCTCTTACG GGGGAAATTC CTTACTGGAG CTAGTTTGGC TTGAAGNGAA  
CTGGACTACA GTGTGAAT

SEQ ID NO:1269: (Length of Sequence = 363 Nucleotides)

CTGCTAGAGA GTATTTTCAGG GTCTGCAGCA TGTGTGTAAG GCCATTAGC ATATGTTAAG GCCATTAAGA GCAGTAATTA  
TAAAGGGCC CTGCTAAAAT AAATATCAAG TTCCCTTAAG AAACCTCAAA ATTATGAAAG TTTGAGGTCA TTATTTTGCT  
ACAAATGANC TTAGCAGCTA AGNAAAATGT CTGCCTGCTT ATAACTAAA TATGGTATAA TTATATATIN CTNTTATGTA  
TTTCTAAAGC TACATTTTCA CCTAATCTCT ACTACAAAGT AGTTTCGGGA AACAAAGTAA AAGCAGGGGN AATCCAACCT  
CAAATATAAT CAAATATAT

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GATAAGTGAG ACTAATGGAA TCGTTTCCCT CTAACITCAT AAAAATTTA AGGATTATCT TTCTTGAGTT CTCTGTATTT  
CTGTTTITAGA AGAAAAGAAC AAAATTTGAG AAACAAGATT ATAGTGCCTT TNCITAAAGTA TAAATACGTG GGCCCTATAC  
AAACTGGCAA ATTCATTAGT CTTAAAGCAG ACATCCAAGC TATGTGGGT GTTTGGATGA CACCATTTTC ACAGTAGGAA  
ATCATTTTAT TCTGAGCGTG GGAATCGGCA TTGGTTAAG CATGAGGTTT TATGTGGTAT AAACACCTGG GAAGTGAGAG  
AAAAGNCAGC ACAGAAGCTC TGTGGGAGCT CTTCTGAGCA TTG

SEQ ID NO:1271: (Length of Sequence = 335 Nucleotides)

ATGCCCTCTGG CTGTTTGTAC TGCAAAAGGT GATGTGCAGG GGTAGAGGTA GGGTACTAAT TTACAGTCAC CAAAATTAGT  
ACTGATATTA ATCAGTTTAG TTGGATTAAG ATGAACAATG TTTAATGCTT TAAGGNTCAT TTTTGTCCCC AACAGGACTG  
TGCTATATTA AATGACACCG TGCCCAAAG CTCAAAAATT ACATAGAAAG TAAAGTACTT CTTGAATACT AAAACAGTTA  
AGCATAAAAG GTTGTGAATT GGTCCCAAAG TGATATTAAC TTAAACATTT AATCCTACGN NCTATCTTAG CTGTACCTC  
TAAAAATGCT TAGGA

SEQ ID NO:1272: (Length of Sequence = 323 Nucleotides)

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GTTTTAGATA TTTTAAGATA TTTAACTGTC CCCTGGGCT TTTAAGGAAA AAATAAGTAT AAATNCTTGA ATATTAAGAN  
 TTTTAAATCA GCTAAATTC GGGCCAAGAA CTATTTAAGA TGATTCANTG AGAAAGAAAA GGACCTAACC TGGAAAAAGA  
 GTTTCAAATA TGCCAGTACG TAGGGTATTT NTGGAAATAC ACAGTCTAAA ATTAATAATT NNAACTINATC AATGGAAATTT  
 AAATCTATAG CACTTTAAGG CTGTGGAGCC CAACANTAGG GENTACTTTG GGGGCACATG ATCTTTCAAA ACATAAATTA  
 GGG

SEQ ID NO:1273: (Length of Sequence = 368 Nucleotides)

GCAGCCTGGG CAACAAAGCG AAACCCAGAC TCACAAAAA AAAAAAATAA AAAGTCTCTT AATCACAACA GCAAAGCTCC  
 AAAAGTTCAA GCATCACAGG TAGCTAGTGG CTACTATATA GGCAGCACA GACACAGAAC GTTTCACAAC TCACACACAG  
 TTCTANTGGG TAGCAATGAC CTATACTGCT GACCATGCTG NCCAACATGT NTGCAGCAGT CCTTCATCCC TCTGNGTCC  
 CCTGTTACAA GCTTAGANCC CCTCCNNAC GCTCCTCCCC CATAAACAGG GCAAGTNGG CAGAAGGTGG AATCCTTTTC  
 AGGGGGCAAA T

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GCAATGGGAT CTGGAGCCAA AGAAAAATAT ATCTGAGTTC TAGCTCCTCA CTAAGTAACT GTGIGATAAT GGGTATGTCA  
 CTCACCTCTT TTAGCTTTG GTTCCTTTAT GTGTAAAGG GAAAAACATA TGCCTACATC ATAAGGCAGA TGTGAACATC  
 AAATGTTATC AGTAACTGTC AATCTGTTTT ATTAATGTGA GAATGTCCAA AATATTAGTT TGTATGGACT TCAATGAGTA  
 TGTTTGTGG AGTGGAGTGG GGGAAAGGA TCATTGCTTA CCTCTGCAC ATATCATGTT TCAGCCTAGT ACAAGGCAGC  
 CATGAGCACA AAGGGCTAAG CTACTTAAAT CAGNCCCCAA ACAACTTC

SEQ ID NO:1275: (Length of Sequence = 319 Nucleotides)

AGATTACTCT TTGAGAAAT TTGGTTAATT GTGAAGCTGA AATATCCTGA CTCTACCTCA AAGTTAATGT TTTAGGTAAC  
 TGAACAGGTA TTCTNCCCAT TACTAGTATT GAAGTCAGAA TACAGAAACA AATAGTTACT GCCAGAAGCA GAATGGAAGA  
 GCCAAAAAGT ACACAAATG GACGCCATAA ATNCTGAAAT AAAAGTGTAT GATGTGTTCT GAGTCACGT AGAAGTCATG  
 CATTATTAT CAAGATAGAA AAGAGCAGAG AATGACGTGG GACATTGGTC CTCGGAGGCG TTCGTANGTG GTTCGGTCC

SEQ ID NO:1276: (Length of Sequence = 324 Nucleotides)

CTGCATTGGG CAGGACAAAA CTGCCAGAT TCAGAAGGTC ACGANTCATC TGGCCTTTAA TGCTGATATC CAGTGGAGAG  
 CTGGAGTGA GGCTTGGGA AATATTGACT TCCAGGACCC AGGGCTTGAG GTTTTCNTCT AGCATGATGT CAAAACCAAA  
 GAGTTCATGG CAGCTATAGG GCGTGCAC ATACATCTTG AGCAGGCTGG TCACATAGGG CTCTGACGAG ATGATAGTTT  
 TGACAACAAC ATCCTTTATC TTCTCCAGA TGGCGTCGCT ATTGATNCC CTTCTGGGCT CAGGTAGTTC CACAAAAGCC  
 TTCA

SEQ ID NO:1277: (Length of Sequence = 388 Nucleotides)

AGCAAGGCGG TGGGGTAAGT NTGGACCTTT GTGTACCAGA GAGAACATCA TGGTGGCTTT CAAAGGGGTC TGGACTCAAG  
 CTTTCTGGAA AGCAGTCACA GCGGAATTC TGGCCATGCT TATTTTNTN CTCTCAGCC TGGGATCCAC CATCAACTGG  
 GGTGGAACAG AAAAGCCTTT ACCGGTCGAC ATGGTCTINA TCTCCCTTTG CTTTGGACTC AGCATTGCAA CCATGGTGCA  
 GTGCTTTGGC CATATCAGCG GTGGCCACAT CAACCTGCA GTGACTTTGG CCATGGTGTG CACCAGGAAG ATCAGCATCG  
 CCAAGTCTGT CTTCTACATC GCAGCCAGT GCTTGGGGC CATCATTTG AGCAGGAATC CTCTATCT

SEQ ID NO:1278: (Length of Sequence = 354 Nucleotides)

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GGACTTGTAC CCTGGGTGGT GAGAAGACCC TGATTGGTTT TATTAGTGCA TTCTGTGAAG TNACTGGGAT AATCAITGTC  
 AGTTCAGCAT TTTATGTGAG TTTCTGAAAG CNCTTTAATC AACTCCATAG ACAAGATTAT AGTGTGTCAC AGCAATAGGC  
 ATGGGCCATG TCTGCACTGG AGGTAAGTTG CAAGGTACAC CCACGGGTGA TTTATCACTC TTACAAAGAT GATAACTAAT  
 GAAGACCGCA TCTAGAATGC TCTTACTGGA GATGGTTTAC AGAGCATTIT TAATCATCAT ACTTAGATTT ATATTAATAT  
 TTCITTTTCAA ACTAAATTAT TCCAACTGT GCCC

SEQ ID NO:1279: (Length of Sequence = 347 Nucleotides)

CCACTTCAGT GCTTCTGTGT CCGAAAAGA TCTTTTGACG CATAGGGCCT AACTGTAATA CACTTAAAGG ATAAGTCTCC  
 ACCCCAAGGT GAACATGGGT CATGTGTAC ACGCACATTA GTTCATTATC CATGTGTGAG GACCTCCTTT GTGAACAGTC  
 ACAGCTCCTC CTATAACCTG TTAAATAATG ATGTTTGATC AACCCATTCA ACTTAAATNC TTGCTCTACC TCTCCTTCCC  
 TCAAAGTGCC TGGCTATACT TCCCAGCCTG CGGGATGGCC ACCTTGCAGG ATGGAACCTT TGTAAAGAA TAAAGTCTCC  
 TTTCCAAATG TACACATGT ATGACTT

SEQ ID NO:1280: (Length of Sequence = 344 Nucleotides)

ATCCTTAGCA TGCTGINIT ACTGAGACCA TAAACTTTTT TTTTTCCTT CTGCCCTCAC CCAGTGTGTG TTAAGTCTTG  
 CTTGTTAAGC TCCACACTT AAATGGCTGC TTGCAGAATT GCAAAGGGAC TAGGGAGAGA ACAAACAG ATATGCAGGT  
 GGTGGTTGTT AACCAGACAG GATTTCTAAG GAGGGTTCAG GCAGTCAAGT GGTTTTINGT ATGTTTTTA TGTTCATAGT  
 TTTGAGTTTT ACAATGTGTG AAGCTTACTT TTGCTAGCAT TAGGTATAGT TTATTTTGAA AGAATGAGGC TCCTGAAAA  
 AACATGCCC AGTAACTAT ATCT

SEQ ID NO:1281: (Length of Sequence = 331 Nucleotides)

TGAGGAACAT AAAATGGCTT GGTAAGTA ATAAATCAG TACAATCACT AACTTTCCCT TGTACATATT ATTTTCAGT  
 ATAGATGAAT ATTACTAATC AGTTTGATTA TNCTCAGAGG GTGCTGCTCT TTAATGAAAA TGAAAATTAT AGCTAATGTT  
 TTTCCCTCAA ACTCTGCTTT CTGTAACCA TCACTGTTTT AATGTTTGTG TGTTCTCAT AAAATTTAAA TACAATTCGN  
 TATTCTGTTT CCAATGTTAG TATGTATGTA AACATGNTAG TACAGCCATT TTTTTCATAT GTGGAGTAAA AATAAAATTA  
 GTATTTTTTAA A

SEQ ID NO:1282: (Length of Sequence = 310 Nucleotides)

CCATGTCAAA TGTAGTTTAC AAAGGGAAAG GACAAGTACC TTTNTATAGA ATATACAGAC ACAGCATCAC ACCACAGGGC  
 CCACGGGAGG GTCGGGGAGA CGACACTTTT TCCCTGGGAA AGGCAGCTCT AATCCCAGGA ATGGTTCTCN GCAGAGGCTG  
 GGTGGCCAGG AGCACTGTCC TCTAGCCCC TAACTCAGCC TCTGCTTCAN CTCGGTTCCC ATTTCCCTGCC TCTACCCCCC  
 AACTCCTTAT AAAGAGCCCC ATGAGCTAAG ACTAAGGAGA GGTTCATNTC CCTTGGGGCG TGTGCCCCAT

SEQ ID NO:1283: (Length of Sequence = 323 Nucleotides)

ATGAGGATTA ATTATATCTG TNCACCCAC ACAGCTCCCC CATACCCATA ATCTTTATTT ATTINCTTCG TTTCTCCCTT  
 ATACCTTGTT TCAGGCATTA AACATAACC TGTTATTTAT NCTATCCTTT TCAAAACAGG TGTGGACCAT GCACAGATGA  
 CCTATGAAGG GCAGCACTGG CACGCCACGG AAGCCTGCTT TNNTTGTGCC CAGTGTAAAG CCTCTTTNTT GGGATGTCCC  
 TTCCTTCCCA AACAGGGTCA GATTTACTGC TCAAAAACGT GCAGTCTTTG GGTAAGACG TCCATGGCCT CTGAATTCCT  
 CCG

SEQ ID NO:1284: (Length of Sequence = 283 Nucleotides)

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TTTTTTCACA AGGTGAAAGA CCTTTATGGA CATGACAGAG AGGACCTGAG TTAAGAGGGA AAATACATCT NCATAGCTAG  
 GTTCACATTC AGTTATGTTA GTCCCAAACC TACAAATTCA ACATGATCCC TATTAAAATC CTACCAATAT AGTTCAAAAG  
 CTTGACAAGT TGATTGTINAC ATTTATATGA GAGANTAATT AAAAAAAAAA AAAATAGGGC CAGGTGCAGT GGCTCAGGCC  
 TGTATCCCA GCACITTAGG AGGCCAAGGC GGACAGATCA CTT

SEQ ID NO:1285: (Length of Sequence = 341 Nucleotides)

CATTCTINATG ATGTAGAGGC CAAAATGGTA TTINATAAAG AGGAAATTAC TTCTGANCCA CCCCAGCTGG AAACACTGGT  
 AGTATCGGCA GCAGATGIGA TTACATCCGT TTGGTATTA CACATCGTAT TTACAGCAGA CATGACTGAN CTGGGAACAC  
 TGCCCTGIGA GACAGCCTGA AAGTTTTTIN CAGATTTTNT GTGAACACTG TCTGAATTCA CATTTGGCAA AATGATTCTN  
 CCAATTTCTC CGGCTTCTGC TAGTTTGAGG CAATCTGTTT TATGTGCCCC AGCTGAAGAT CTITCACTAA CTCGATCTTT  
 AGAAGCTAAC TGCATTGCTG G

SEQ ID NO:1286: (Length of Sequence = 354 Nucleotides)

GGCCTATTTC TACAAAGTGT GCATGTNAGC GTGCGTGTGT GTNTGTCAIT TTTCCCCCTT TAGGTGGTTC AAATTTGGAA  
 TTTGTGAAGG CAGAGCTGAT AATTAGAGAC AATAAAAATC TGCAGAGTAG ATGGTTCAC AAACAAGACT ATGAAAGAGG  
 GGATAAAGA AGAGGTCAAG AAAGACTCAA GAACAGTATA TAGAATAAT TCAATTACAT TATGTGTATT TTAAGAAAA  
 CATGTTCAA CTGCATGAGA CAGAAAATAG CACTCTGTGA TCCTCTAGA CTCTNAAAG TTTTGAGTTT GTCTGCAATC  
 TCTTCCATT AATCGNCTTT TGCCATCTTC AGAA

SEQ ID NO:1287: (Length of Sequence = 354 Nucleotides)

CTCTCTACC CGGTGGCCTA TAGCCCCAA CGTGGTCAGC AGCTGCCTCA GCCATCCAG CAGCCTGGTT TACAGCCCAT  
 GATGCTAAC CAGCAGCAGG CGGCTTACCA AGGCATGATT GGGGTCCAGC AGCCACAGAA CCAGGGCCTG CTCAGCAGCC  
 AGAGGAGCAG CATGGGGGCG CAGATGCAAG GGTGTGGTGT TCAGTACACT CCACTCCTTT CITACCAAGT TCCAGTGGGT  
 AGTGAATGCT AAAATGTGGT CCAGCCGCTT TCCAGCAAC CCATCTGGT CCCTGTGAGC CAGTNTGTGC AAGGAGGCTT  
 NCCAGCAGCG GGGGGTACCA GTGTACTATA GCAT

SEQ ID NO:1288: (Length of Sequence = 231 Nucleotides)

TTTACTTAAT TGGTATAGAT TGAGGNTCAT GCATCANCA GACATTTTGA AATTNTCCCC AAGTGATTCT NACCTGCAGC  
 CTGGGTAAGA AGTCGCAGG CTCTGGATA GTCATTAAGT GAACTGTGGT AAGCACTGAT GTAGCAGGAT TACCTGCCCT  
 ACTAGGTGCC GGAATGCAT TTNCTGTCT ACAAGTAATT TTTTAAATG TATGCTCGCA TCCTGCTT G

SEQ ID NO:1289: (Length of Sequence = 329 Nucleotides)

GGACACTGTG AGGGGAAAGG ACAATTTTAA AATTCCTTTT CAAGGAAAAA AAAGGTCTTT ATGCTTTGCC ATGAGGCCAC  
 ATTCAGCTGC TATTTAANCT TAATATCTTG AACCTAAGA ATGCTGACTT TNCCTACATT TCCAGAGTTA GGCAGTATTC  
 TACACTTAAA GACTACTACT ATTTINATAA AAGGTAATCT ATTCAAATTT CTTACAGAT TTCCCTTGCT GGGGATCAGT  
 TAGTAAAGAA GGAGGAATTC CTCTTACCCA AGAGGAATTG CATTGCTTTA ATTTAGCAAT GTGAGGTAAG GCCTGCCNAG  
 TGCCCAGGG

SEQ ID NO:1290: (Length of Sequence = 297 Nucleotides)

GGAGGCACAT GTGCAGCTTT GTTCATGGG TAAATGTCAT GTTCTGGGG CTAATGTGGT TTCTTTTACA GAAAAAGTA  
 TCAGAAATAA TCGGTAACT TTNCTCACAT GGTCTTAACT CTCTTCAGG AAATATCTAA CTGTGAAGTG CAATCCTTCT

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TGTATAGCTG CCAGACCAGA CCCAGATAGA CCATAATAAA ATAAAATACA CAGTCAGTTT TTAATGCAAG CCAGAATGAC  
TCTNCTGTAT CTTTAGCCTT TCCAGGGGGA TACAGTGAAC TCAGATATCC CTGCTTA

SEQ ID NO:1291: (Length of Sequence = 317 Nucleotides)

CTATAATCCC AGAAGTTTGG GAGGCCGAGG TGGGCGGTTC ACCTGAGGTC AGGAGTTGAG ACCAGTCTGG CCAACATGAT  
GGAACCCCAT CINTACAAA ATAAAAGCA AGATATGCAA AATAATGTGC CAGTNTGGTG CCGTATACCT TTAGTCCAG  
TTACTAAGGA AGCAGGGTGT CTNAAACAGA AGAATCACCT GAGCCCAGGG AGGTGAGGC TGGCTAAAA TAGATCTGGG  
GGTAGTGGT AATNGGCCT TGTGAATNAT TCAGCATAAG GAAGTGTCCA ATATTTTTT AAGCTGTGAG AAAATCC

SEQ ID NO:1292: (Length of Sequence = 293 Nucleotides)

GAAGATGGAA ATAGACCACC ATACAAAACA AAAAGACAG AAGAGAATAT TAGCACTCTG TTGCAAAGGA GAATAGGTAT  
GCTCACTGG TAAGTAGAAT GCAATATTC CAATATCTGA AAAAAATCCC AAATCCAAAA TACTTCTGGT TCCATGCAIT  
TTTNTAAGG GATACTCAAC AGGTATTTTA AAAGATCAA ATACAGATCA GAGAATATGG ATACTTGAAG ATTATGAGCA  
AACGAGGATT AAGGNAAACA TGTGGAGGA CTTTTAAAA ATGTGTTAAA GGG

SEQ ID NO:1293: (Length of Sequence = 310 Nucleotides)

TCCCAGAAAC ATTACGGTTT GATATCAAGT TCCTATTTTA AGAGTCACCC ATTTGCCAC CATAAGTACC TGGAGAAGGT  
AGGGTATTAC AGGACTAACC TTCCAGTGGC TGATTCTGGT GGTTTCCACA TTCAGGTTTC TCTGATTTIN ACAAGCTTTT  
TCCCATAAG ACTGCATTIN CTTTAAAGC TTCTCTGCA AAANAGCCAT AAATTGAAGC ACCAGTGAAG ACAATAAGT  
AACATACAGA CCGTTTCATT GGGAGGGGGC CCNGAATENG AGACAAATAA GTCCTAGTA AATGGCATT

SEQ ID NO:1294: (Length of Sequence = 275 Nucleotides)

GAATGACGAT GTCAGGGGCA TCAGGAAAGG TAAGGGCCGG GAAACCGGGC CCTTGGAGAA CCTGCCAG GGGAGGCCA  
GCCTACTCAC AGGNTCCGAC ACTCCAGGCA GAGCAGAGGG CAGGAGAGGC CCAAGAGCT AGGTCAAGCA GCTGGCTCCC  
CTGGGGTTAA ATACATGGGT TTTTGTTTAA CTGCTGTGCT TGATATACAT GAAGTAATGA ATACCAAGCA ATTCATTTTT  
CCTGCATCTT TACTTTTACA TTGTINCTTA GGTTCCTTAA AACATTTNAA ATACAATAAA ATGAGTGTAG CAAAAATTAT  
TGAAGCT

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CAACCTCTGC CTCCGAGTT CAAGCGATTC TCCTGCCTCC CGAGTAGGTG GGATTACAGG CATGATCCAT CAGCCCAAC  
TAATTTTTTA TTTTATAGTAG AGATGGGGTT TCTCCGTGTT GGTGAGGCTG GTCTGAGCT CTGACCTCA GGTGATTCAC  
CCACCTGGC CTCCAAAGT NITGGGATTA CAGGTGTGAG CCACCGGCC AGGCTACTGG TCTCAATTCT TTTGGATACC  
CAGAAGCAGA AATGCTGGGA TCACATGGTA GTCTC

SEQ ID NO:1296: (Length of Sequence = 247 Nucleotides)

GGAAGGAACA ATTGATAAGA ACCGGGGACA TCAGGGAGAG AGAGTATTTG AGCTGGGCTT GATTCCATCG GGTAGTATCT  
GGAAAAAAA AAAAAATCC CAGATGAAAG AATGTACAAA GACATGAGCA TGCAGGGCAC ACTTTGGAAA ATGGGNGAAG  
TCTGACAGGC CTGGGAGAAT GAAGACAAGT TAGCACCAGN TTNAGAAGGC CTTGATTACA NGGCCAAAC TTTTGGATTT  
TACACTA

SEQ ID NO:1297: (Length of Sequence = 246 Nucleotides)

GACTTCTTAC AATGCAGCAG CAAGAGAAAA TNAGGAAGAA GCAAAAGCAG AAACCCCCAG TAAACCCATC AGACTTCGTG  
 AGACTTATTC ACTATCACTA GAATAGCATG GGAAAGACCA GCCCCCATAG GTCCACTACC TCTCCCTGGG TCCCTCCCAA  
 AACATGTGGG AATTATGGGA GATACAATTC AAGTTAAGAT TTGAATGGGG ACACAGTCAA ACCATATCAT TCTGCCCTTG  
 GCCCCCT

SEQ ID NO:1298: (Length of Sequence = 263 Nucleotides)

CATTGCACTC CAGCCTGGGC AACAGAGCA AAATCCATA TCAAAAAA AAAAAAAA GAATTGCTGA CCTTTATGTG  
 TTTCTGTTTA AGTTCACAAC AGTCATAATT CTGTAAAATA CAAGGCAAAA CTGTAGTTTC TGATACTAGT AATATATCTA  
 ANTCACTAAG TAAAAAGGAT GTGTAAAATC TTAATAGGGG AAATAATTAT TGTATGANCA AGCAATTTCA AAATCAAAAG  
 NCACGTTTCA GTATATATTA TAG

SEQ ID NO:1299: (Length of Sequence = 272 Nucleotides)

ATCINATTGT TGTGTAGTTT ATGGCAGTGG TCTCCAGACT TTTTGGCACT AGGGACCAGT TTAATGGGAG ATAATTTTCC  
 CATGGACGAG GGGATGGGGA GGAGGCAGGG GTGGTTTCTG GATGAAACIN TTCCACCTCA GAAGATCATC AGGCATTAGT  
 TTCTCATAAG GAGGCAAAAC CTAGATCCCT TGCATGCACA GTTCACAATG GCACTCGTCG CATATNCCGT CGACAACCCT  
 TTTTGTAGGT TCCATGCTTC CCATTGGCT TT

SEQ ID NO:1300: (Length of Sequence = 277 Nucleotides)

ACCACTGCAC TCCAGCCTGG GTGACAAGAG TGAAGTCCA TCTTAAAAA AATGTGTAAA ATGAAGATTA TCATACTACC  
 TACATCATAG AATTGTTTTT AGTGTAAAAT GTGTGTGTGT ACATTTATGT AATAGTTAAC ATTTAAAGAG CACCTACTTT  
 GTGTAAACAT ACTTTGTATG AGATACTGTT CAAATATATA TNCTAATATA TGCAACATAT TATATATGTN AGAATAGGCT  
 CTTATATATC TTAGGAAGTT AGATCTTATA TGTTTGA

SEQ ID NO:1301: (Length of Sequence = 304 Nucleotides)

GGTTGCGGGT TATGTAAATC CCAACTTAT GAACAGGAAA TGTGTACAGT GCATGATAGG TTAAATTTTN CTTTATTGTT  
 GTCCAACGCA GGTCTTTTGG AGAGAAAAA AGATCACAGT GCTGACCAGG TAACTCAATA GGTTAAGTCA AGGTAACCAT  
 TGAAAGATAA TAGGATTAGG GAGGTGTTTA TTTTATGGCA TCTTCTCTCA TGGAGTCTTT AGCACTTCGG ACAATTTGTC  
 TMTCCCCAC TTTGTACAGC TGTATGTGT CATTCACCAG CCGGCTGTAT TTAACITGCC TACT

SEQ ID NO:1302: (Length of Sequence = 335 Nucleotides)

AGTTTATTCG CATAAGAAA ACATTTTATA AAATAATATG GTAGACTTCT ACTTCAACAT ATTCACGTAA AAACATCACA  
 GTGCAAGAAA GTGATCACA TTAAGCATGA AGACATCAA AGCCAGCCAG TATTTTAACT ACAGAGCAGA ATATTCTTGC  
 TGTCCCTTCC TAGAAAATGT TGGCACATTC ATTAACGTCT CAGGTTACAA AAATCACTTC GTGTCCACTT CCTGTCTTTC  
 AATATATTIN CATAACTACA CTGTGTTACA TTAATGCTGG TGGACAAATT AGCTCCTATA AAATCTAAAA ACCTTTTCAG  
 GTGGGCACAA TGGTT

SEQ ID NO:1303: (Length of Sequence = 316 Nucleotides)

TGGAGCTGTA TATGGTCCGG AGTTATATGC AGCATCCAGC TTTCAAGCAG ATGINTCCCT AGGCAATGAT GCAGCAGTGC  
 CCTATCAGG AAGAGGGGGT ATCAACACTT ACATTCCCTT AATCATTOCT GGCTTCCCTT ACCCTACTGC AGCCACCAGC  
 GCAGCGCTT TCAGAGGAGC CCATTNAGG GGCAGAGGGC GGACAGTATA TGGTGAGTGC CGAGCGGTAC CTCCAACAGC  
 CATCCCCGCC TATCCAGGTG TGGTTTACCA GGGACGGATT TTACGGTTGN TGACCTCTAT ATAGATTCTG CAAACT

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SEQ ID NO:1304: (Length of Sequence = 211 Nucleotides)

TATTTTTCNC TTCCTCTCTC CCTACATATA TTCTAAACCT TCIAAAGTTT TTINATTTT TTAAGGATCA CTTTATCATA  
AAATAAAATA TCCTTTTCAT ATAATAAATT ACCTAATAAA AAGTCITTTT TTTTCATATT AGCCCAGGTN CTTTGCTACA  
TTTATATGGT AATAAACGCC TTTATTAATA TAGANTATTA AATTATAAAG A

SEQ ID NO:1305: (Length of Sequence = 316 Nucleotides)

GAAATGATTC AGGGAAAAA AITTATAGTA CGTTTTCAAC TTTTTTTTTT TTTCTTTGAA ATGGAGTATG GTCATAAAAA  
GGACACTAAA TAACCTGATT AAGCTAGAGT ATAGACCAAA TTGCCACTTA CTTTGAATTG TTTTACCAA AGGTATCACT  
TTGAATAAAG ATAACTTTCA TTAGACATCT ATCTTTATGT GTTCCTGCCA TCATTTTCAGT GAGATCAGAG GAAAGTTAAA  
TTAGGAACAA TGAAAAGCT TAAGAAATGA ACAATCATCA TGCCTTTGTG TATGCTTAAA GTGAGTACAT GTAAAA

SEQ ID NO:1306: (Length of Sequence = 310 Nucleotides)

GGGGATTTTT GAAGGCTTCG CTGTGGATGG CCGAGAACCT GCTCGGGGTG TAGGTCTGTG TGTCTGGGGG ACAGTTTCCA  
CATCTGAGCA CACGGACTGG ATTTCTGAAA TGTCAAAGTC TGATGCATCA CTGCCTCGGC GGCTGCTGGC CCTNCTGCCA  
GCTTTGCTTC CAGCTCGACT TCCGTGTCGG CTGGGAGTCT TCTTGAATC AGCAAACGT GTTCGGACTC TGGCAGNIGC  
AGTTGTTATC AAGCCACTGT CCTCCCCANA GTGGAAGCCT TTCCTGATA AAAATCCTGG AAGTCGAAGC

SEQ ID NO:1307: (Length of Sequence = 302 Nucleotides)

TAATAAATAG TATATGTAGT GAAGAAAAAG TTATAACAAG TATACATTAC ATTAAACACA CCTAGCACAT AGGACACCCCT  
CAACAACAG CTACAGCTGC TGTAAATCAT GTGTATATAA TATAACATGC AAGCATATCT TCATGTATTG ATTAATTACT  
ACTTCTTGGA AAAGGATCTG AGGAACATAT TTAATATATT TNATATGCCT GCTCATATGT NCATTTAGTG CTTATCAATT  
ATATTTAGTG CTTTTCTATT AGCTTCATCC ATTGATTAA GATAGCAACT TGTATTATTT AA

SEQ ID NO:1308: (Length of Sequence = 285 Nucleotides)

CGCCGGCCAA CGTGGTCTTC CTCTACATGC TCTGCAGGGA TGTTATCTCC TCCGAGGTGG GCTCGGNICA CGAGCTCCAG  
GCCGCTCTGC TGACATGCCT GTACCTNTCC TACTCCTACA TGGGCAACGA GATCTCCTAC CCGCTCAAGC CCTTCCTGGT  
GGAGAGCTGC AAGGAGGCCT TTINGGACCN TTGCCTCTCT GTCATCAACC TCATGAGCTC AAAGATGCTG CAGATAAATG  
CCGACCCACA CTACTTCACA CAGGTCTTCT CCGACCTGAA GAACG

SEQ ID NO:1309: (Length of Sequence = 319 Nucleotides)

TTTCCAATTA TTATTTTGCC AATATCCTCA ACTCTTTTGC CCACCTTINAT CTTCCATTCA ACCCTCCCTG CAAAATCCTG  
ATCTAAAAGC AACCCAAGTA TTTGCCTCTT CAACCTCCCA GCTGCTGAGT GGTTTTGGGA ATTACACAAC CACTAAGCTT  
GGTGCAATG CACTATGGCC TCAATAGAGT CCCCCAGTGC TGCCCACTTT CTCCTTCCAT ATTTCTCCAC AGCAGCTGGT  
CAAAATACAT TTNCCCCAA ATGTCTTACA CAACCCCTT CTCTCTTATC ATCCTTANCT CACCCCCACC CCAGTTCTT

SEQ ID NO:1310: (Length of Sequence = 356 Nucleotides)

TGAAGTTTTC CTCTTGTCGC CCAGTCTGGA GGGCAATGTG CGATTTCAGC TCACTGCAAC CTCTGCCTCC CGGGTTCCAG  
CGATTCTCCT GCCTCAGTAT CCCAAGTAGC TGGGATAATA GGCCTTGCA ACCATGCCCA GCTAATTTTT GTAGTTTTAG  
CAGAGACGGG GTTTCACCGT GTTGGTCAGG CTGGTCTTGA ATTCTGACC TCGTGATCTG CCGCCTCGG CCTCCCCAAA  
TGCTGGGATC ACAGGCATGA GCCACGCAC CTGCCCTAT ATCTGCTTC CTATCTCGTG GGTATGGTG TATGGCTTTT  
ATTTATTTCA ACCTGCAGTT GTTTCAGAA CATCTG

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SEQ ID NO:1311: (Length of Sequence = 331 Nucleotides)

AGCTCAGATT CATGCTTGA GCCAAACAAG TGAATGTATC TNAGAAGACT CAGTACCACA TGGTACTGGG AGATCTTACT  
 CACTTCAGCT GCGGTGCTC ATTAGTGAAT GTATGACAGC AGGATGTGAG GGGATGCCCA GGAGTCAGTG TTAGCATTGT  
 CATCTGAGAT CACTGCTATT AATATCATCC ATTAAATTTAT TAGTGAGCTT CACTATATGC AGACTGGGAG ATAAGGAGAA  
 AATCTGTAC ATTCTCTCTA GCTAATCAGA TCAGCTACCA ATTAATGAGA TTCTGAATGA AATATCAATA TGTGTTTTTC  
 TAATTTGGAC C

SEQ ID NO:1312: (Length of Sequence = 347 Nucleotides)

TTTTTTCCTT TATAAATTAC CCAGCTTCAG ATTTTITINAT AGCAATGCAA AAATGGCCTA ATACACTTCA GAACCTGGAA  
 GATTAGCAGT GAGAAATAAA ATCAGTTAAG TTGATGACTT CTAGTATTTT ACTACATGGT TGTTTTGCCA AAATGAAGGC  
 AATATCAGTG TCTTCACACT TAAAAAGTAG TATATTGANC TTTGAGGTGA AAGAGCTGGG GTTTAAATTT GTNCTTTACC  
 AATTATTGAG ATAAGTGTCC TTGAGCAAGT TACTTGCTTT CNCTGATCTT TAGTTTTCTT ATTTGTGAAA TTGGAATGG  
 TGGTGTITCA GAGGGGGTT GTATATA

SEQ ID NO:1313: (Length of Sequence = 336 Nucleotides)

GAATTCCTCT ATCAAAGTGT TCATAAAACC TGGAGCTGCA GCTG3CCCCC ATTAGGTAGT TTCTTGGTGA ACGTTTTCOA  
 AGGAAAACCTT TTTTTTAACA ACTTCATAAA GCCAAGCACA AAAGGACATT GCAATGACTG GCTGAAAGAC ATGGGACTTT  
 TTGTCTTGA CGACTAAAAC GTTAAATGGG GGCTTACTTT GTGCATTTAT GGAAGAAAAC TTGGAAGGCA TTAAAGGCTA  
 CATTTTGAGC CTTGCATGAT TTCATTCAIT TATGCATGAA TTCATTTGTT CAACATTTAT TTAGTACCCA CTATATGCCA  
 GGCATGTGC CAAATG

SEQ ID NO:1314: (Length of Sequence = 391 Nucleotides)

CCGGTTTAGA CTCAGTGG CGCTGTGAGG GCACTGTCCG CCCACCTGCT CGGCTGGCTG AGCTAGGTCA GTGGAGAGAA  
 GCTGGGGCCA CTCACACAGC ACAGCAGGCC ACAGTCTACA GAGTACGCCA GGTAGAGCGG TTAGAGTGGC AGCCGCTGGA  
 GAAAGGGTIA TAGAAACACA TCCCTGACTC TTTGGTATG TCCACGTCC TCCTGTCTC CTCCCTTC CTTACTCTCC  
 TTCCTTTCTG CTCCTGTG TCCTTGGAA GTCCCTGTG TCAGTGCATT TNAGTGCATT GACGTGTCTT AACACTGAT  
 CTNCACACAC CTTCTTAT CTTCCACCTG ATAGGCAGGC CCCAGANCC CTTTTTCTT AGCTTTGTTC T

SEQ ID NO:1315: (Length of Sequence = 374 Nucleotides)

GAATTCCTG GAACACTGGT GTTACAGAG AGAGATACTT TGTGGAATGG AGCTTACATG ATGAATGAAA AAGAGACCGT  
 TAAAAAGTAC TAGCCGTGT TTACAAATAA CTACCAGGTA AACAAAGAAA TCACTTTCTT TCCCTTTCT AAGGATAAGG  
 GAGAATAAAA TAATCACCAG GAGGCATGGA GTTTGAAAAG TATATAACAG ATTCTTTTAT TATTATTAC AATCAAGTTC  
 TGTGTGNCAG CATAATGAAA TAAATAAAG ATGTGCCCTG GCCTGTGAAT TTCAACTCTC CTGACTTAA GTTCTCTGAA  
 GGGCAAATG GAAAGCGTG ATCAGGCAGG GAAGAGAGGG CAGGTGGAGG CCAG

SEQ ID NO:1316: (Length of Sequence = 353 Nucleotides)

CTGTGTTACA GGTITGAAA GGTITGINAG ATTAGTATTT ACTTTTAAIT TTTTGAGTAA TAGAATGCGT TTAGGTTCTA  
 AATTACTATG GAAATGGCAT AGTGAGGATT CTNCACAGAT ATTAGAGACC TTCAACAACA TAGTGAAAAT AGATTGTGCC  
 TTCTTTGTAA ATAGCTGAAC TATGAAAATT TGANCTGTCA CTGGAGGGG CATTTGCNCT GAAGTTTGCC AAGTAAAAA  
 TAACTTTINCT CTTAGTAAG AAAAAGCTAT ATTTTINCAAT ACTGCCTGCC ACAGCAAACA AACAAAGTCT TGTGTGTGT  
 TTAATATTGG CAAAGGAAAA ATTCTCTATA TAA

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SEQ ID NO:1317: (Length of Sequence = 316 Nucleotides)

GAATTCGGAT TATAAGCATC AATATGCATA AAATGCTTAG AGATGGACCT GATATATAGC AAACACTCAG TAAATGTTAA  
 CTATTATTAT NACAGCAGAG CAATTTATTT AAGATTACTG AGTGTTCAAA TGAAAAAAAA GACATATTAA CTTATATAGT  
 GCCATTTCTG ACATAAGAAA TACACAAATA GAGGTAGTTT CTGAAACAAA GATCAAAAAA ATCTATTGTA TGGTGTCTTG  
 TATCAATGTG GCTAAAAATT TCGAGCTAAG TTTTATNAAA GACAGATCAT ATTCANGTA GGTGATTTT GTATTG

SEQ ID NO:1318: (Length of Sequence = 300 Nucleotides)

GTGGGACTAC AGGTGCACGC TATCATACCC AACTAATTTT TGTTTMTTA GTAGACATGT GTTCCCAT CTGGCAGGG  
 CTGGTCTGAA ACTCCTGACC TGAGGTGATC CACCTGCCTT GGCTCGCAA AGTGTCTGGA TTACAGGTGT GAGCCAACAA  
 GCCTGGCCCA TTATTACT TTTAATTTT CATTTTCTT CATCATGTAG AATGGACAAT TTCAGGAAAC TGATAGAAAA  
 TACTGTCTAA CATCAAAATT TCAAAAAGT TTCTCTGTAA CAGATAAGGC AGTCAATTTT

SEQ ID NO:1319: (Length of Sequence = 306 Nucleotides)

CAATAAGCTT TAAAAAGTTA GTGCCACATG ACCAGCATCG ACTGGCTCA GACATCTGCA AGCACTCACC CAGGCCACAG  
 GGTGAGGTAG AGGCTCCTG GGCCCACTGT AGCCCTGCT GGGTCAGTGT AGCTGGAAGG CTACGGGNC TTAGTGGGA  
 GCCACAGCCT TTCCCACTAG GGGGCTCTC ACTCTGACAT CTCCCTGTGG TGTTCGGACC AAGGGTGGG AGGGAGACAC  
 GCTGGCCCTA AAGGGAGGTG GTAATNAGTG AAGATCTCCA GGCCAGNC ACAGGGCTCC GTCCAT

SEQ ID NO:1320: (Length of Sequence = 373 Nucleotides)

GGTCTGATC TCCTGACCTC GTGATCCACC CGCTGGGCC TCCCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGTGCCTG  
 GCCGAGATAA TTATTTTNA GTGACGATTT AGCAACCTGA AAACCTTGGG TCTTTGGGAT ATGACCTCAG TATCAACACA  
 GAATATTGA ATGCTGGTTA ATATATTINT TTAAACTGT GATAGAATTG AAATCTGTA GCCACATTT GAAAGTTTAT  
 TCTTCATTAA CTAGTCTTTT CTCACCTGAT TTTCTACAAG AGAGAATTTT CAAAAGGTT AGTTGTCTT ACATTAGAA  
 CTTGGGGTTT GNTTGACATG AAATGTTTCT ACACCAGCAG GTCTCAGATG AAT

SEQ ID NO:1321: (Length of Sequence = 366 Nucleotides)

GTTTGGCTAA TCATCCTATG ATTTTCCTAT AGCTTGAAAA CTTTTATAT CTTAAATTTT TTNATAATTT TGAAGTATTA  
 TTGTTTGGGC TTGTATATC CAGTGTATTT TCAATTAAAT TCCCTAACT AAAGTAATTC AAAAGGAATA AAAGTGTAA  
 GTGGGCTGGG CGTGGCGGCT CATGCCGTGA ATCCAGCAC TTGGGAGGC CCAGGCGGGC AGATCACCTG AGGGCAGGAG  
 TTGGAGACCA GCCTGGCCAA CATGGTGAAA CCGTGTCTCT ACTAAAANTA CAAAATTAGC CGGGTGTGGT GGCACATGCC  
 TATAATCCCA GCTATTTGGG AGGCTGAGTC AGGGAGAATC TCTTGA

SEQ ID NO:1322: (Length of Sequence = 362 Nucleotides)

AGGGAGGGTA AAACAAATCC CCTTCAATG CTTTGTAGAA GGGGATTAGA ATCACTGTGG AATTCGGTAT TGGCTAATAA  
 AGTATAAAG CTAAAGATCA ATGCTGAGT GCACAGTTGT CTTCAAGCC ATTGTACTTC TGCTTTCCAA GANTAGANGA  
 CTACTTTTAA ACCAAGANIT AAAAATAANC TCATAATTTA AACACCTCTT TCATGCCAAA TGGAAATCTT AGTGTGTAAT  
 AATCAGGCTC ACCTGAATAC AAAGTTGTCC TGAAATGCT GACAATCACA AAAAAGGTT TAGAAGCTTT TTCAAAAAAC  
 AAGTTCAGAT GGTCCCACT GAGTTACTAT TTGAGGTAA AG

SEQ ID NO:1323: (Length of Sequence = 244 Nucleotides)

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CGACCTCAGT GTAAATCACA AAACGGGAAG AGCTGATATT GGCAAAATAA TTACATGGCT CATTTCCCTG CATGTCAAAA  
TAGGAATTGA TTGGTTGTAA AAGATGACAA ATACCTTTNC GGTTCATG TTCTTAAGTG GGAAGTCACT TATTACAGAC  
CTNATTGGGA GTAAACAAAG CTGTTAGACC TTTCATTATC AGTCCNNTTA ATCCCTTCAA TAATCCCCCT AAATCAGTGA  
GGCG

SEQ ID NO:1324: (Length of Sequence = 279 Nucleotides)

GATCCATGCC ACAGTGACCT CTGTNACCT GCACAGCACA GAGGGGAAAG CCCTGTACCA GTTGGCGTAT GAGAATGAGG  
TAGGCAACAG CTCGTACTTC TATGACATCG TGGTCATCGC CACCCCTCTG CACCTGGACA ACAGCAGCAG CAACTTAACC  
TTTGAGGCT TCCACCGCC CATTGATGAC GTGCAGGCT CTTCCAGCC CACCGTCGTC TCCTTGGTCC ACGGNTACCT  
CAANTCGTCC TAATTCGGTT TCCCAGACCC TAAGCTTTT

SEQ ID NO:1325: (Length of Sequence = 338 Nucleotides)

TCAGTTATTT GTGTGTGTGT GTGTGTGTGT GTGTGNCAT CTGCAAAACC TGCACTTCAT TATCCAAAA TTATTTGATA  
TTTTATAATC AGAGAAAATG CTATTTTAA ACCTACCAC TGCTGACCAA ACAACAATCA CAACAGCATA AACTTAAATA  
CTGTCAACA AATCTATTTT AGTGTAGTAA TTAAATAATT CCTAAAATTA TAGACATCCC TAATAATCTT TCCNITAGTG  
GTTCTCAGA GTGCAATCTG TGGAGCAACT ACCITGAAGA AATTTGGGGG AATGAGACCN TGGGAACCTT AAATGTTTAT  
NATGGTGCTC TNGGGGAC

SEQ ID NO:1326: (Length of Sequence = 393 Nucleotides)

AACTTTGGAG GGGACACCAT CACTCAAACC ATAGCTGTAA ATCTATTCCT TGAGTCCAGA TCACAAATTA CCAAATGAAC  
ACGTTCTCCA TTTTATAGTAC TTTTATACCT GTAACCTCT GTCTACCTAA GATGAATATT TATTCATTGA ATGAATCAIT  
TAATTTTGGT GCCCAAAAT TCTCAGTGAA ACAATTTCTG GATACCTCTC CATCACTAAG ATAATCACTA TAGCAGTGTG  
ATATCTTCA ACTTAGNACA AATCTAAAG CTCCATTAT CCCTACTAGA AGTGTCTGT TGTCTTTTTC ACTCTCAAAA  
TATCTCCAT GGCNAAACA AACACTAANG GGNACCACA TATCTTGCTC AATGGAGGCN AAATCACTTT TTA

SEQ ID NO:1327: (Length of Sequence = 381 Nucleotides)

CTTTGGAGAA TTAATTCAGC AGTTGGTAA ATCATTCAT AATAATGGT ACCATTCTGC TCTGTCCAC ATTTTATGA  
AGTCTCTTA AATTTAAAAA GGCAATGTG TTTGTGGTTC TTGAGCAACT TAAATACGT GCTCTGAATA GTTATGTGA  
TGAGGTAATT TGTAACAACT TTTAGGATCA ATGCTAATT NCTTAAATGT TTCTGTAGTT TCCCTTTAT TATAAAGTAT  
ATTAGGCTGG ACTCTGGCT GTAAGTGGCA GAAACTCAA CTCAGATTAG TTAAGAAACA AAAGGTGTT GGTGACAGTG  
GTGGCTTCA GACTATTGCT GCAGGCCAC CTGCCATCCT CTACACCT CAACATACCC T

SEQ ID NO:1328: (Length of Sequence = 289 Nucleotides)

AGAAGAAAAT TCCTAAGCAG AGTACTTAAG TACAAAATG AGTGACTGAA AGATGCTTAA TCTAGGGAAA TTAATGAGA  
AAAATACATG GTGTGTGINT TGGAGGGGA GCTGGAATTG GAATGGGCTG GAGTGATGAA AAAAGCCAA CAGATATAGT  
CTTCTGTTT GTAATATAGG CTCAATACTA AATTATGTAG GACTAGATAA TCTAGGTCCT AATGTCTCCT TTTTGTGGC  
AACCTGGGG CCAATTACAC TAGAGGGTGT GTAGAAAAA GAGGAATAT

SEQ ID NO:1329: (Length of Sequence = 364 Nucleotides)

TTGTATATTT GGGATTGTCA ATAATCTAGG CCACGTGGAA GATAACAGGC TATTTTGGAT ATTNCTAAT TGCAATGGTT  
ATATTTCTGT GTAAATGCCT ATACAAATGT TTGCTGGTG ACATATGGAA AACTTAAGCN CTTTATGAA AAGGCGACAA  
TGGGGACCTC CAAAGCGCCA AAGTTTCTGC TAGGCATAGT GTTATTTTGA GATTACATTA AAATGGCTAT TTAGACCCAT

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CTAGCTGAGA CTATTCCAAA ACAAACTTTT TATCANATTG TNATCATAAT CAACTTTTCTA CAGGCTAATG ACTTTTATAGN  
TTTACTNCTA GTGTATATCT ACTAGCACAA TTGGACCCAG TTCC

SEQ ID NO:1330: (Length of Sequence = 221 Nucleotides)

CAATATTTAA ACAAAATGCA AACTGAACG TTACCTCAAA ATGAAACAGT GTGTGTACTG GCTGTTAGAA GTTGATGGCG  
GTCTACTGTT TGATATTCAC TGCCATCTTC CTCTGCCCCA CTCTACCTCA ACTGGGGACC GCTCACCTA ATGGTGGGCT  
TTGCCGCTTT ATGCCNTGTA GAGNAGACAC TGGGTAACCA CAGCAAATCA ACACGGGNTC C

SEQ ID NO:1331: (Length of Sequence = 279 Nucleotides)

AATAGAGATA ATGGTCAACT CTTGAGAAGA ACCAAATGCT GGTGCCATCT TGGAAAGTGT ACATCACCTC CTCCTCTTAC  
TTCCCTGAAC AGCAATATTT CTGGATTCTT TCTGCAAGCC CCAGGCAGTG CAGGATGCGT TTTTTCAG CAGCCAGTTC  
CTTCTCAGAG AACTGGCCCC AGAGTTTCTG GACAAATATA TTTTGATCTT TCAGAAATAT GTTCINATTC ACTCCTACAT  
TTGGCACATT NTCCAAGGGC CCAGACTGA AATTGGAGG

SEQ ID NO:1332: (Length of Sequence = 290 Nucleotides)

GGACGAGGAG ATGCTTTTGG TGGACTTGGG AAAGAGGTTG CTAGAAGCAG CAAGAAAAGG CCAAGATGAT GAAGTGAGAA  
CGTTGATGGC AAATGGCGCC CCATTACCA CAGACTGGCT TGGACATCA CCCTCCACC TTGCAGCTCA ATATGGTCAT  
TATTCCACAG CAGAAGTACT CCTTCAGCA GGTGTTAGCA GGGATGCCG GACTAAAGTA GACAGGACCC CCTTGCACAT  
GGCTGCAGCC GATGGACATG CGCACATCGT GGGAACTGCT TTTTCGGAAT

SEQ ID NO:1333: (Length of Sequence = 201 Nucleotides)

CGCCCAGCTA ATTTTGTAT TTTNAGTAGA GACGGGTTT CATCATTINA GTCAGGCTGG TCTCAGACTG CTGACCTCAT  
GATCCACAG CCTTGGCCTC CCAAAGTACT GGGATTACAG GCATGAACCA CCAGGCCCAT CTGATTTCCC GTTTTCTGCA  
GGGTAAAGNC TCAGGGCCGG CCCATTGNTT TCAGGANITT T

SEQ ID NO:1334: (Length of Sequence = 267 Nucleotides)

NNATACTTT TTGTGAAAT TTAGAAATG TGGATCTTTT ATACTTGCTT TCCCTTTTCT TCTGCCATCT TTATCTTCTG  
CTGAAGGAGA CAAACAATAT TTTAGGTGAC ATCTATCACT TTATGTAGGA CCTGCAAACA CTCATGTTGT CTTGGACAG  
ACAAATGGAG AATGTAAATC TGTTACACTG TGACAGGATA TAATTNTGGA TTGCATAGEN TTNCAACAAA GTGTCTGTGT  
GATGANTAAA TGGTAAAATA TATTTAT

SEQ ID NO:1335: (Length of Sequence = 279 Nucleotides)

GGNTCTGTGTT AGAATGCAGA TTCTAATTAA AAATGTGTAG GACAGGGCCT GAGACTCGGT ATTTCTAACA AGTTCCCAAG  
TGATACTAAT GCTACTGCTT CACAGATCAC ACTTTAAATA GTAAGTTCTT TGAGAGAGAT TAGTCTCAAG AGAAAAGAGA  
CAAAATCTC CAGAGCAGGA AGACCAAGAA AAAAAATGG AAAGTAGCCA GTCGATTATC AACTAGATGG CCTTAGTGAG  
ATTCTGCACA ATATTTCATC ATACAAACT GNTTCCCA

SEQ ID NO:1336: (Length of Sequence = 398 Nucleotides)

TTTTTTAAGC ACTCTGTGTG GACTGGTCA AAGATGTTCC TAAAACAACA TTGCTGTAC CAAGCCTCCC ATGANTTAGG  
CTGGCTCTC CCATGTGGAT ATCTGCTTCT GCATAGTTGG TGAAGAGGAA GCATCCTCAG TCAAAGCTAC CAGCTGAGGA  
ACCTTAGGA AACCCGCTG GTACCTGGCC TGINTTTTGT AAGTATACAT CAGGCCAGG GGTGCTTGC CAAGCAACAT  
CATTGACTGC ATACTGTTTA GTGCATGCAT TACCAGGGCT CAAACATCCA AGTGATGCTA CCTGAATAAG TCGAGGAATT

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TTTGATAATA AACATAAGCC AAATCCAAAA AAATGTTCTG GGTTTTCCCA TCATTTCAC TCATTAGTNC CAGGAAAA

SEQ ID NO:1337: (Length of Sequence = 272 Nucleotides)

CTTTCCTCAG TATCACAGGT ACCTGTTTTN CTGGAATTTA TTTAAAATGT CACCTGTAG TGTTCCCTCT CTAGGGCTGT  
TTGTTTCATT TCCCTCTGAA TGAATGCTGC CACACGGTCA TATGTGAGCC AAGTTTACAA GAATGGAGTT GCTGCTGAAG  
AGATCTCTCA TTCATCTCCC CCAGTGCTG TOCTTCACAA TCATAACGTT ACCCTTGCTT GACAAATATA CTGTATGGCA  
AGTCATAAAG GTCTINGAAC AGGACTTGAC CC

SEQ ID NO:1338: (Length of Sequence = 212 Nucleotides)

TAGTCCCTT TATATAATAT AATCAAGTTC TCOCATCTGG GCATTGAGTT AAATCTACA ACATTGCCAA AATCTGATTT  
GACTCTACAG AATATGTATA GTTTATTTAA CCAGATAGTA ATTTAAATTT TTACAACATG CGTATTTTCAT GTAATATTAA  
TAACAGTAAT TTAATAATAT ATTCAATACA TACCGTTTGA ATTTTTATAA GG

SEQ ID NO:1339: (Length of Sequence = 280 Nucleotides)

TTTTTAGGAA TAACAAATGT TTATTCAGAA ATGGATAAGT AATACATAAT CACTCTTCAT CTCTTAATGC CCGTTCCTCT  
CCTTCTGCAC AGGAGACACA GATGGGTAAC ATAGAGGCAT GGAAGTGA GGAGGACACA GGACTAGCCC ACCACCTTCT  
CCTCCCGGTC TCCCAAGATG ACTGCTTATA GAGTGGNGGA GGCAAACAGG TCCCCTCAAT GTACCAGNTG GTCACCTATA  
GCACCAGCTC CAGATGGCCA CGTGGCTGCA GCTGTACTCA

SEQ ID NO:1340: (Length of Sequence = 324 Nucleotides)

CTGTTCCACC TCAGATCATC AGGCATTAGA TTCTCATAAG GAGTGTGCAA CCTAGATCCC TCCCATGTGC TGTTTCATAGC  
AGGATTTGCA CTCTATAAG AATCTAATGC CACTGCAGAT CTGGCAGGAG GCGGAGCTGA TGGTGGGAAG GTGGTATTGC  
TCGC CCTC GCCTACTGCT CACCTCCTGC TGTGGGGTCC AGTTCACC ACCAGACCACT GGTCTNIGAC TCAGGGACCA  
CTAC CCT AACANGGNTG AGGAAAACAA CTGGGTTCAT CACACAATTA TTTTAAAGTT CAGGTTTNC AAATAACTTA  
TCCF

SEQ ID NO:1341: (Length of Sequence = 376 Nucleotides)

CTAATCAAGG GTACAAGATG TCTAANTCAA AGGCCAGCT CTGCCTACAA GTCAAATATC TAGGCCTAAT CTGGCCAGA  
GGAACCAGGG CCCTCAGCAA GGAATGANTA CAGCCTATAC TGGCTTATCC TCGCCCTAAG ACATTAAAAC AGTTGTGGGG  
GTTCTTGGGA ATCACTGGCT TTTGCCGACT ATGNTCCCC AGATACAGCG AGATACACTC TAAGGAGACC CAGAGGGCAA  
ATATCATCT AGTAGAATGG AGACCCAGAG GGCAAATACT CATCTAGTAG AATGGGGACC AGAGGCAGAA ACAGCCTTTC  
AAAACCTTTA AAGCAGGCCC TTCTTNCAG CTCCAGCCTT TAAGCCTTNC CACAGG

SEQ ID NO:1342: (Length of Sequence = 335 Nucleotides)

ACCCCTCCCC ACTCCTGGT CCCCGGGAGC AGCTCCTTCT GCCCGANTNA CTCACAGTGC AGGGAAAGGA GGCAGGAAA  
AGACCAGGAT TCTGTGAGTT CTGAGGTGTC CACACACAAA GAAGCTGTGG TTTCTCTGCC TGGCCACTG ATGAGACTAA  
AACTGGCTTC CCCTTGGAGA CGGCAGATTT CAGGCTGATC CTTGCTTAAAG CCCTCTCATC CCCACGCTGG TCTGGTATT  
GATACAAGAC CCAGCTGGT ACAAGCCTC CAATCCTGGG GGTCCACGGA GCCTGGGGCT GANATTCCA GGAAGTATCC  
GCCAGTGGC GCCCA

SEQ ID NO:1343: (Length of Sequence = 379 Nucleotides)

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GAACCCAGGA GGCGGAGGIT GTAGTGAGCC AAGATCGTGC CATTGCACTC CAGCCTCGGC AACAGAGCG AACTCCATC  
TTAAGAAAAA AAGAAGGGTG TGATAGTTAA ATTTATGCAT CACTTGGCT AGGCAATGGT GTCCAGATAG TTGGTCAAAC  
ATTATCTAG ATGTTTCTGT GGAGGTTATT TTTTAGATGA GATTAGCCTT GTAAACTGGT GAAAATGGG TGAAGGAGAT  
TACCTGCGAT AGTGTGGTGG GTCTCATTTA ATCAGCTGGA GGCTCAATA GGGAAAAAGA CTCACCTCNC CCTGGAGCAA  
GAAGGAAATT CTGCCCAGC AGAACTTCTT NGGGCAGCAG AATGCAACCA TAAACTCTT

SEQ ID NO:1344: (Length of Sequence = 400 Nucleotides)

GACGGATGGG ATCGGGGCTG TGCTCTGCAG GTCTCCCCA GAGATGTTGT CACTGCGA GGGATGCCG TCGTAGGACA  
CCCTGCAGCC AGAGCCGTCC GCCGTCTGGN AGGCTGCGCT CTTGCGCTTC TTCTCGGGGA GAGCAGGTGG CGTATCTNTN  
TGCTGCCCTG GGGCCAGAGG TCCGINTGGC TGGGGATGGC CGCCAAGAGG CAGCTGGAAA GGAGGGCCAA GAAATGGAGA  
CCCAGACTCC CCCAAGACT CTGGCAACGG GCTAAGGTT CAGGGCCGTC TGCTGAGGTA TCTGGTCTGC GTTAGAGAGG  
TCTTNTGGA GGAATTCATA GTCGGATCA TAGCAGATCT TGTCCTTTT CTATACCATC TGTCCTATTT GGAGATNGCT

SEQ ID NO:1345: (Length of Sequence = 347 Nucleotides)

CCTCTTCCC CAAGGAGCTT GCAATTTTAG GAACTAATCC AGTTTGAGGG CTGAATTTAA GTTAAATCA ATTACTGCCC  
TATGTACTCC TTTTAAACA ACATTAGGTC AAGACCTTT CAGTGCTAAA TAACTGATT TGTCAATTAT ATACATTCAA  
GTTTTATAAA TGTTTTC CTCACCTCAC TGAAATATCA GAATCCAGCT CAAAACAGA ATCAAGAGG AGACTTTTAA  
GCTTATTCAA TAAAACTAT GGTACGGTAA TATTCAAAT AGTGAAATC ATTATATTAT CTAAATTTCT CAGGAACTG  
CTTTAACCAT GGATTAAATA ATTACC

SEQ ID NO:1346: (Length of Sequence = 287 Nucleotides)

CAAGTCAATA CCCATAATT AGTCAAGTTG CCAGCCTTAA TTATATTTNT NTCTCGCTCG TTCACCTCT CTCTCCTTCC  
CTCCTTCCC CTCTGCCCCA CCCCCGTTA CATTATATAC CAATTCATG GAGATATATA TATGINTGN TNGTNGTNG  
TGTTGTTNNC TGTTGTTG TGTTGTTAA AGAAGCAGGA TGCTTACAC AGATGTTTCA TATATTGAGG NATTACAGAG  
TAATTACAGG GAAAGGTATT ACATGTTCT TCAACACCT AGGCAGT

SEQ ID NO:1347: (Length of Sequence = 295 Nucleotides)

ATTAAACAAC TTTTAAAC TTTTGTGCA CAGGACAGAA AACTGCCTGT ACATGCTATG TCCACTTTTG GAACACAGAT  
TTTTAACAAT TATGAATGCA CAAATCTTA CATATCATGC AACTCTATGC CAAGAACCCA ACTTCTTCC ATGCAACAGA  
TATGAAGATC TAAATGGAAA CTTAGCTAAG TCTTAAACAC TTTCCAGTA GCAAGTATA TATATGTTGT TGAGGGAAAA  
CCAGTCTTAA CAATNTCTG TACACAATAT TCATGTGCCA AATACAATGN CAGGN

SEQ ID NO:1348: (Length of Sequence = 332 Nucleotides)

AGTCCCTGCT ATGTGGATAT TTGGTAGCAA TGACTGATGT GGAACTACA TATGCAGATT TTATTGCTTC AGGAAGAACA  
GGTAGAAGAA ATGCAATACA TGATATCTG GTTCTCTG CAAGTGGCAA CAGCAATGAA TTAGCCTTGA AATTAGCAGG  
TCTTGATATC AACAGACAG AAGGTGAAGA AGATGCACAA CGAANTTCTA CAGAACAAG TGGNGGAAGC CCAGGGAGAA  
GCAGCAAAAT CTGAAGCTT AACACCCAC TTTGACCTC GGCCACACCT GAAATGTCT CAAATCTCCA GGGNGTATCT  
GGGAATGCAT TT

SEQ ID NO:1349: (Length of Sequence = 296 Nucleotides)

GCCCCAAAA CAATGACACA AATTCAITTT GGTAAITCA TGTAAGGAA AAAACAGCAA CACCACCACA CAAACAGGAA  
AGTGGGAGTA TGATTAGGAG GGGTGAGATG AAAACTATTT TACAGTACA TTCCACCAA AAGACTGTCC TAAGAACAGC

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CTGTCAATAC AGTTCACAGG GAAAAAGCAA ATGTGGTATT TTTTGTATT TTTTAAAAGC TCCCTGGGTC CCAGGTGTTT  
TGCAGTTTTTC AAGGNCCTAT CTGCTAAAGG AATGCCCTTT TAGGGTCACA GCAGGT

SEQ ID NO:1350: (Length of Sequence = 317 Nucleotides)

CTGTGCCCCA GGCTAGAATG CAATGNCGTG ATCTTGGCTC TCACTGCAAC CTCCACCTCC CAGGTTCAGG TGATTCTCCT  
GCCTCANTCT CCCTAGTAGC TGGGATTACA GGIGTTCACC ACCACGCCAG GCTAATTTTT GTATTTTTAG TAGAGAAGGG  
GTTTCACCAT GTTGCCCAAC CTCGAACCTC CAACCTCAGG TGATCCACCT GCCTCAGCCT CCCAAAGTGC TGGGATTACA  
GGCATGAGCC ACTGTGCTG GGCCAATAAA CTATATTTIN TCAAGCCAAA GTAGGACAAG CACAGTTTTT AAAAGGG

SEQ ID NO:1351: (Length of Sequence = 349 Nucleotides)

CGGATGGGTG GGATGAGACT TCAGCTTTAT TGGAAATGTT TTATTTCCIT ATCTAAAAAA ATACTAGAAA GAAATACAAC  
AAAAATGTTAA CAGTTGTAA TGTCGGCTC TGTAATATA GATATTGTGT TACTTTAGTC TTTTTTTTAA TCTCAACTAA  
ATTAAAAAAG GAATTTTAGT CTTTTTTTAT CTCAACTAAA TTAAAAAAGG AATTTTAAAA CCCTAGTGTT ACATGCAAGT  
GAGTCCAATA ATGGCAAAAT AATAATGAGG NTACATAGGA AGGGTGACCT AAATTTTAAT GGGTGAATAC TGGGTCCCCG  
GTACAAGTTT GANAAATTTT GAATTTCCG

SEQ ID NO:1352: (Length of Sequence = 304 Nucleotides)

TTTTTATACT ATTTAAAAGA ATCCTTAAAT GATGGGTATT CTCTAAAGCA TGCGGGGCTT AAAACCTAGA TGATGGATTG  
ATAGGTGCAG CAAACCACCG TGGCACAATAT ATACCTATGT AACAAACCTG CACATTCAGC ACATGTATCC CAAGACTTAA  
AGTAAAAGTA AAAATTAAAA AAGATGGGTA TTCTATATT ATCTTTCATG TTACATTTTT CTTTGTGGG TTTCTAAATA  
AAACTGTAA CATGAATGTT TTATTCAT TCTGTATTTT AAAAGAAGC TGAGTAACAA AAGG

SEQ ID NO:1353: (Length of Sequence = 307 Nucleotides)

CTTAGTCTGA CATTAGGTAA TGAGAAGTAC AAAAGATCCA CAAGTACAAA AAAATCTGTA TAGCTTTGCG GTAGTTGAAA  
AAAATGCAAG AGAACAAAAA AATTTTTTGA GTAATATTCA TCTCTGCAGA TCTGAGTGAC AGTCCGCTTG AAACACCGCT  
GTAAAAGTGG TAAAAAATGA TTTCAATTGT ATTATGTTAA AATTTTTGAT GTCTCINTTA CTGTITTTAG GGAATCTGG  
TCTTCTGNC ATTTATACCT GGATANGTNC CTTTCCCTGT AATTTTINCT GAAAGGCTCC AATTTCC

SEQ ID NO:1354: (Length of Sequence = 407 Nucleotides)

GTGAAGTTAA GCAGCAAGGG CTGAGAACCG CTGCTCCAGA GAGGCCAGGA GGTCTGGTCA GAGGCTGGG CCCCAGCCCC  
CAGGCACCTC TCTGTGTCAG TTTCCCTGGA GAAGTCATGA GTTTGAAGAG TAGGCAGAGG CCAGGTGTCA TCACTGAGTC  
ACTCATCAAT GGCCAATGAG AGTNCAAAGG GTAGCTCTGA GCACAGGATG TTAGCAAGA CTCTGGGTT CAGCTCCAG  
TOCCACCANT GCCAAGTGGG GGATCCTTAG CAAGGTACTT ACCTTTTTNN TGCTCTGTT TCTACGGCTG CAAAATGGGC  
ACAATAATGT CAGATTCATG AGGGATAATG AGGACTAAAA TTAGNTAAT TNOCTATAAG CTGCTCTTAA ACGTATTTAC  
TTATAAA

SEQ ID NO:1355: (Length of Sequence = 355 Nucleotides)

ATTACTATTT GCCTCTATAG GAGGTTTCAT TAGGCATCTN CTTCATTATG AGTGCAATAT AATCAAACAC TTATCAGTAC  
AAGGCAGAGA GACCGGGACT AGCTGCCTAC ACATCTCTCA TGAGCTTTAG GAAATGTGAA GGAAACATGG ACTGAAAATC  
TTCTGGTGGC AGGTACTCTC ATGTGTGTG CTATCTGATG CTCTCAACAA CCTCTAGGGG TAGATATTGT GACCTCATC

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TTGCAGAAGC CTGGCTCAA GTATATGCTC AGAATCACAG AGCTGGAAGA TAACTTGGG TCTCTCTAGT GCCAGAGNCC  
ATGNCCTCTG ATCTCTCAAG GGCAGAGGTA TTACC

SEQ ID NO:1356: (Length of Sequence = 406 Nucleotides)

TTTTTTTTAG TTATTTCACT CTCTCTGTTA AATTTATCTG ATAGGATTCT GCAGAGAACA AAATTCAACA GGGCCCTGTG  
GAGCAAGGAG CCCCCTTTTC CTATCTCCTT CCTCTAAGAG CTACACCCAG ACCAGCTGGT TATCAGCGGA GGCCCGCTG  
CTCCTCATGA GAACGCTGGT GGAAGACGAA GGTGATGGCA GTGGAGGCAG CATCCAGGC AGCCTGGAGT ACCTCATCCC  
GGAGCCCCCA CTTATCAGTG CAGTGGTTCC ACCCTGCCAG GGTCTNAAGT GCAGTCAGAA CCATCAGGGG GTNGCCGGAT  
CTGACGGCTG TTNACACAAC GTGGCAGTG CAAACCTAGG GACAGAAGGC ACANCTNAAG TCACTNCAGA TCCCATCTTC  
CTACTG

SEQ ID NO:1357: (Length of Sequence = 231 Nucleotides)

TTTCACAAAG AATTTATGAT TGCTTCACCA GGTCACTAGT GAGCTAAAGT CAAGGAATGA CTACAATCTT GTAGCATTTT  
AAAGTGATTA GAATTTGAGA AACCTTTACT ACATTATGTG TTACTATCAT AAGAACACTC CTTTGGGGC AATTGAATAA  
TAAAAAGNC TACATTCTTT GCACCANGTG NTCATTTTCA CCCACATTCC AGTATTTTNC TCTAACTTGG G

SEQ ID NO:1358: (Length of Sequence = 302 Nucleotides)

CACAACATAT TTGTAAGCCC CTTGAGCGCA GGAAGCTGGT TTTTAAAGAA TGATGTATTC TTCACAGTGC TTCCCTTTTC  
TGTTACCCAG GGAGCACATG GCAATATAAG GGCTCCTGGG ATTGANCTTT AAGTACAGAG AAAACCTAAG AATNCTTTTA  
GATAGACAGA TAAGAGACCA CNAGAGAAGA GCAGATTCTA AGGTATNTGT GAGAAACGTT ATGTAATGAA AAGATAATTG  
ATGACACACA CTTCCAGAGN GTGCTGGCGA GATTGTATTC AAAAGCACAC GGCTAGGGCA CT

SEQ ID NO:1359: (Length of Sequence = 356 Nucleotides)

TAATGATGAG CCTCTGGGTG CAGGGAGAGG ATAGGACTTG ATGCTTTCCA GGGGAAATAT TTAAAATTTT AGTACTAAGT  
TAAGTCTGTA TCATTTTACT TTTTATATAG TTTCTTATTT TATGTTGTAT GAGATGAAAA GCTTGCACAT AAAAGATGAT  
AAGAAATTAG AATTCATCGT TTCTGTGTA CCAAGAAGAA CCTTAGTGAT CTCTAAAAGA ATTGTTGTTA AAATATGGAT  
TCINCTTTCC TTCTAGTACT CCCCAGCAT GACANTGAGC GTGTGATCCA TTACCAAGTC TCCTCATGAA AACCACAGTG  
AGTCAGCCCT TCACAGAACT ACTACGGGAG GAAATT

SEQ ID NO:1360: (Length of Sequence = 366 Nucleotides)

AAAATTTAAT TCAACTGACC CATCCACCG GGAATGCCA CTAGGAAGGT GTAGCCTGCA GTTTTACCTA ATAAGCACAA  
CTGGAGGGGA ATAGAAACAC AGAATGTGA GGAATCGCA AGGCATGCTG CTCAGAGCAT GCCTAGCCCT GCACTGAAAG  
CTATGAGATA CTGGTTCTGA GGCATGGCTG TGCTTGCTGG TGGGAGCGG CATCCTCCCT TGGCCTCCCT GGGACACCTC  
CTGTGCTCCC TGCATGCAC TCCACGTGCC TGGGGTGTCT ACACAACTNG CTGCAGCTTC ACTAAAGAAC AGGTGGCACT  
NCAGCTTCTC CGGTCTCTG TGAGCACAGG GNCCGCCAN CCTTGA

SEQ ID NO:1361: (Length of Sequence = 347 Nucleotides)

CCTCTACTG TCTGTCTGT GGGACAGTGG CCTCCCCCTC ATCTCCAGTG ACTCAGCCTA CACAAGGGAG GACCAACAGG  
NICTAGTTTT TCCAGTGAT GGAGTTCAA GCTTTTTTTT TTGTTTTGTT TTGTTTCGCA AAATAAAAC AATACACATT  
CCAAGAGAAA TGAATGCATC TMTGACAG TCTCTATTTC TCATTTACAT ATGTACACAC GNCCCTTGAG TCGCTGCTGT  
TGACACGGCC CNGTGTGGAC GGGTCAGGCC CGAGGCCCT CGGAGCAGA CCTGTAGCTC TCTGGGGGAT CAGGGCTTCC  
ATTAGGGAGA AAGTATTAGC AGTTTCT

SEQ ID NO:1362: (Length of Sequence = 358 Nucleotides)

CCATTTCATTC ATTTCATTCAA CAATATTTCAT TCAACAAATG AAGCAAAGGA GCACACAGCC AAGTGATGGA GCAAAATCAC  
AAATTAAAAG GTAATTCAGG CCAGGTGAGG TGGCTCATGC CTGTAATCCC AGCACTTTGG GAGGCCGAGG CAGGTGGACC  
AGCTGAGGCC AGGAGTTTNA GACCAGCCTG GCCAACATGA TGCAACCCCG TNINTACTGA AAATACAAAA ACAACAAAC  
AACATAAAAA AATTAGCCAG GTATNGTTG CAGGCGNCTG TAATTNCAGC TTAGTCAGGA GGCTTTGGCA NGGGCTTCAG  
TTAGCCAAGA TCGGACCCCT NCACTTTCAG CCTGGGTA

SEQ ID NO:1363: (Length of Sequence = 312 Nucleotides)

TATTTAAATA ACGTGCAATT TCATAAATCA GCACATTTAC TAGATAGGTA GGATACTTTT NATCCATTG TGTTTAAAA  
AATTAGCGCA TGTTTCTCTT TATGCCCACT TGTATTAGCA GAATAGTGT TCCGGATTCC CTGAATGGNT CTGTATTGAG  
TCTGTATAGA CCCCAGAGGA AAAGGAGGAA TTGCGCTGC CCGAGAATAG CTCCGTCCAG CAGTTTANGG NAGAAATCTC  
TAAACGTTTT AAATCACATA CTGACCAACT TGTGTTGATA TTTGCTGGAA AAATTTTGAA AGNTCAAGAT AC

SEQ ID NO:1364: (Length of Sequence = 345 Nucleotides)

CTGACAGATT TACAGATGCT GACCTATTGA AAAATACCAC AGCCAGAATG GGCTAAACAG GTATATAGTT AATACAACCA  
CCACCATCCT TTACTTTTAA CATAGCTCTT AGTAGGAATT TCATAAAANT GGACATCACA GCTAAAATGC ATTATTAATT  
CTCCTATCTG CTGACAATAA AAAAGCAGCA AACTCAATGA TTTCTATTTA AATGCACTAG ATGGGAATAT CATGTTCTAG  
GGGTGTTTGC CTTCAAACCA AACCACAGC AACACACACA AGCAATTTGG GTATCCACCA TTTTAAATTC ACAATCTGAG  
NCTAAATGAA TGGCTATTTA TATTT

SEQ ID NO:1365: (Length of Sequence = 255 Nucleotides)

CTCCAGAAAG CCATTGATCT GGTGACGAAA GCCACAGAGG AGGACAAAGC CAAGANCTAC GAGGAGGCGC TCGGCTGTA  
CCAGCATGCG GTGGAGTACT TCCTCCACGC TATCAAGTAT GAGGCCACCA GCGACAAGGC CAAGGAGAGC ATTGAGCCA  
AGTGGTGCA GTACCTAGAC CGGGCCGAGA AGCTGAAGGA TTATTTACGA AGCAAAGAGA AACACGGCAA GAAGCCAGTC  
AAAGAGAACC AGAGT

SEQ ID NO:1366: (Length of Sequence = 322 Nucleotides)

AAAAAAAAA TTCCAAAGAA ACAGAGTAAT TTTCTCCTT GCCTCAGCCC TAAGTCATCT CCCAGACAAA AAAGCAATCA  
TCATTGTCAA ATTTAAAAGG GAAAAGGAAA GACTTTTATT TGANTGAAAA GATTTTTTTC AGTGTGATAG AGAGGGAAGA  
CTGAAATAAA CAGAATTTAC AACCTTCGCA CCTTTGCACC TTCTCTTCT AGCAGTATGG CAAACTAAAT AACTTGCACT  
GAAAACGGGT TAAAAAGCTG TATACTTTTT TAAAAAATAT ATTNGNTTA TGTCAATGAT CTGCACAGTT TTGAATACAA  
AA

SEQ ID NO:1367: (Length of Sequence = 349 Nucleotides)

GAAAACAAGG TCAACATCAC TCATCATTAG AGAAATGCAA ATCAAAACCA TAGTGAAATA CCATCTCACA CCACTCAGAA  
TGGCTGCTAC TAGAAATAAC ATGCTGGTGA GGCTGCAGAG AGAAAGGAAT GTTTATACAC TGTTAATGGG AGTNTAATTA  
GTTCAACCAT TGTGGTAGAC AGTGTGAAAA TTCTCAAG ACCTAGAGAC AGAAATACCA TTTGACTGAG CAATCTCATT  
ACTGGGTATA TAGCCAAAGG AATATAAATT GTTCTACTGT AGAGAAAACA TGCATGCATG TTTGTTTGA GCACTATTTT  
ACAAGAGCAA ACACATGGGA TCACTTAA

SEQ ID NO:1368: (Length of Sequence = 379 Nucleotides)

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CTGGGACAGA GACCTTTGCA TTGCTCCATG TGTGGCTTC AGCTGGGACA GAGACCTTTG CATTCCTCCA TGTGTTGGGG  
 CAGGTCTTCC ATTTCAATCT CCTCTGCCCT AATTATTTAG CCATACTTGT GCTATTTATT ACTTTTAAAC CCTAATCCTT  
 TTTCGGTAAT TTGTTTACAT TTTCAGAGT GCCAGCAATT TACAATGTGT CTTTTATGTC TCACAGAGGT CATCATTAG  
 TTAGACCTTT GGCTTCATGT GTCTCCGAG AGATGGTTTA TAAAATTTC ATNCTTCTGG CACAGGTGGT GTGGCTTAGG  
 GATTAGGACA CAGCTGCCT GAGTTCACAC CTCATCTCTC CCACTTAACA CTGATAATT

SEQ ID NO:1369: (Length of Sequence = 319 Nucleotides)

ATTTCTGGTC TAAGTTTAT TATTCCTTT CTCTGCTTG TTTTAGGCIG ATATTGCACT TCTTACTCCA GTTTTCTAAG  
 GTGGAAGCTT CGACTATTGA TTTCAAATCT TTTTNCITIN CTAATCTATG CATTCAATGT TATAAGTTTC TGTGAAGCAG  
 TGATTTCAAT GCATCCACA TTTTGATAGG TTATATTTCC ATTTAGTTAC AAATAATTTA AATTTCCTT GAGATTTCTG  
 CTTTGACTTA TGTGTTATTT GGAAGTGTAT TTTTATTCTC CAAATATTTA GAGATTGCA GCTGTCTTTA TGTATTAA

SEQ ID NO:1370: (Length of Sequence = 343 Nucleotides)

GGAAACATA AATNTGACA AGTAGTTCAA GACTGTTGGG ATAACTTAG CTAGAGTGCA GGTACATACT ACCCATCTTT  
 ATAAGGAAGC TGAAAAGGGA AGTATGAGGA CAGGGAGAAC AATGACTTIN TCTCTCAAGC TTGACTTAAA CCACCAGGAA  
 AGTTCTTAAA GCCAAGCCT TTCTCAGACT CTCACCAAC CATAAGAGTC AGAAAAATGG TCGTTTTCAA AGGAGTAGAA  
 AATTCTGTAC AAAGTAAACA ACAGCTGAAG CAGGAAAGN ACATACATTT NNTCATTAG TGGCAGCAG GCAAAACAGA  
 ACATAGGGCC AGCTTGTTA TTT

SEQ ID NO:1371: (Length of Sequence = 295 Nucleotides)

ATTTCTNCCT GGGCGCGAT GATCTGAGCA ATGCCCCCA CAACTTGGT TTTCACTACA ACATCGTCT CATCAGCTTT  
 GCCAAAAGCT GCCTTCTGGG CTGCAOGGAC AAGATTGINT GAGGCTCTTT TCACAGCAAT TCCTGCGGCC TGTAGCGGCC  
 TCATGGCCTC TNAATCCTGG TGGCCTTCA CCTTGCAGGC CACCAGCAGC TGAGCGGTGG AAGCGCGAC CTGCTTGGCA  
 GATGAGATGA GCTTCTCTC GCTGGCGTGT CCTGAACGG AGGCATTGGC CGCCT

SEQ ID NO:1372: (Length of Sequence = 340 Nucleotides)

TTTGCTTTCA GATAATGTTT CTGTACTTT TATAAATGCT ATCTGTGGTA TCTCTGTAT AATTNACAAT GTTTGCATGT  
 AAAAAACAAA ACCCATAGAC CTTAAAAAAA AGAAAAAAG AATATACAC TATACATAGG CACAGCTTAT GCCCAGAGCA  
 TAGCAGGTGC ATAAACACT GTTGTATAA ATGCAAGAAA AAGGTCAATT AACCACAATC ACATTTTTT NCATAAGN  
 GTCTGAAATC TATACAATAT ATACATCTAT GTTCAATGT GGAAATAATA TTCTTTTAAA TTCAAGGCG TGTATACCC  
 CTGCAGGCCT GCATAAATGG

SEQ ID NO:1373: (Length of Sequence = 315 Nucleotides)

AATCCTGGGG GTGATTTAGA ACTTAGAGGC ATTCTCAAAA TGGACCAAGC TAAATGGTAG CCTTTATTTN CIGTAATGAT  
 TCACCATGGG AAAATTAGTA ATTCCTTAAA CTCTTACTT AATCTTATAT GTATTCCAAA TTINCTAAAA AGAAATTAAC  
 CTAGAGGTTT TACAGAATC CATTTTTTTT TTATTNCCA GAAAGGAAAA ATTTATCTGT NCTGINATTT TGTAAAAAT  
 CCTATTCCAG CTACTACTAT GGAAAAAGGA AAAGAAGAAA GGAGGAAAGG AAGGGAGAGA GGAAAGGAAG GGACG

SEQ ID NO:1374: (Length of Sequence = 327 Nucleotides)

GAGCCAGTGG TGGCCCCAA CAGCCCAATC TGGTACTCAG TCCAGCCTAT CAGCAGAGAG CAGATGGGAC AAATGCTGAC  
 GCGGATCTG GTGATAAGAG AAATTCAGGA GGCCATCGCA GTGGCCAATG CAAGCACTAT GCACTGAGAT GCCTTGGCCA

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AAAGGAAAAT ATAAAAGAAA ATAAATCTC ACATTGGTGC TTAGCAGGAG AATTTTAAAA GACTTACAAA TCAACAAGCT  
GTTCAAATAA ATAATGAATG CTGCAGCTGG CTCCTACATG GGGCTTTNAG TGTCCCAANTA GTAGCAGATG TCCAGTTCT  
ATAAAAT

SEQ ID NO:1375: (Length of Sequence = 338 Nucleotides)

TGCATGGAAA CTTAATCTAT TCAGGTCCCA ACTTTCAGGC TTCTCTGCTC TGACAAGTAC TAGAGGCCAA TATGATAGAC  
TAGTCTGAGT TGGATGCAAG TTAGCCATTT CCAGGAATGA TACCAGGATA AGTATAATGG TCGTGAATAT AACCGGATTT  
TAAGGGAGAA TGATTACACC TGGAAACAAA CTGTCAATAC ACAAGTAACT AGTTGTAAAA GATTTCCTAAT TTTGACCAAA  
GATTTTFACT TTCTGTGTAT AGAAATGGAA ATAAACATTN AACTTTTAGG TTTTGAAAGC AACCACCTCC TAACACGGTT  
CTGAGTTGGG GGCCAACA

SEQ ID NO:1376: (Length of Sequence = 307 Nucleotides)

CAAGCCTCCC TCAAAAAAAT CCCCAGAGTA ATGAAAATAC AAAGTCTGCT TGTTCAAAAT TATGGTGGCA ATAAAAAAGG  
AAAGGGAGGA AGTGATGGAG TAAAGTTCAG ATTAAAAATA AACGGAAAGT CACAACAGTC GAAAGGTGGA AAAAAACCGC  
AAATGCCCAT GANCTGATGA ATGGATAAAC AAAATTTGGT GTGTGTGTAT ATATGTGTAC AAACCTCCTT TTTATGATGA  
AATAGTATTT CATTGTGTGT GCACATGTIN CACACACANT TTAAATAGTA TTTCGTGATA AAAAAAG

SEQ ID NO:1377: (Length of Sequence = 353 Nucleotides)

TGGAATACAC TTGTGAATAC AGTGTGTAGG ATACATTAACT AGTTTCTGA GTGGGCTGCT CTTTTTCCT CAATACTGTA  
TATATTTTNN TTAAGCTCTT CTTTAAAAGA TAAATATTTT TCATACTTCT CTAAATCCT CAAGGATTAA CTCTGAGTCA  
CCATTGTGG TATTTTAAAT CCTTTTAAAT AAATCTCTGT ATTGCAACT GCATCAAAAC AGTAAACAT TTCACAGGGT  
AGGATCTGAT GACCATTTTA TAATCAACAT TTTTAGGTAC CACAAGAG ACTTTATGAG CATCCACTGA AATTATGGGC  
ATTATGTCAT ATAAATATCC AAAAAATCCAT TTT

SEQ ID NO:1378: (Length of Sequence = 315 Nucleotides)

GATTTGGCAA ATATTTGGGT GAGATTGAA AATAAATTAC ACCACTGCTG CACAAGTTAA TGTGAATCAA GCATCTGTTT  
ATTTCATCA GTTATGCCT TTCTCTCTT TTTTGTGCG TGCAGTTGGG GTCACAGACT CTCAATTGTA CAAGACACTT  
TAAAGCAGG AGTAGAAATT AGGCTGGGT TTTACAATA TTACAGGAAC TGTCATAACA AACTTCAAGT GGATCAGTTT  
ATTTCTGATT TAACTTGGGG ATAAACAGTG TTCAATATTT TCCAAAAGAT TCTCCCATATA TAGAAGTCCC AAAAG

SEQ ID NO:1379: (Length of Sequence = 352 Nucleotides)

ACCGCAAAAT TTAGCTGTTT ATTAGGTGTC AAGTCTCTCC TTCTCTCCCT GCTTCTCTT TCTNCTTTT CTCCCCACAA  
ATCTCTCAA AACACATACA AAAAGAGAAA ACTAGAAGCA AGATTGGGTC AACATGAAG AACACAGAAA GCNTATTAAA  
TAGCTAGCTT TAAAGGGCTC TTTTTCAGTT TGAACAAAAG TAAACGTTT TCAAAAGCAA AAACAGAAAA CAGAGCTTCC  
ACCCAGATTG TGCAACTTAA TGAGAGGAGG TTAGTCTGA TAAACCAAT GTGAAATCTA TTATAAAGTG ACAGGTTTTT  
CAAGCAAGGA AATCCAATCC AGTTGGGGT TG

SEQ ID NO:1380: (Length of Sequence = 261 Nucleotides)

AAAAATTTAG TGAAGACGTG AATAGATATT NCTGCAAGA AAACATACAA GTGGTCAATA GGTATATAAA AGGTATTCAA  
TATCACTAAT CATCAGGGAA ATGCAATCA AAACCACAAT GAGTTATCTN CTCATACCTT TNATGATGGC TAATATTAA  
CGAGAGATAA CAAGTGTITA TGGGGGTGTG GNGAAAAGAG AATGTTGAA CACTCTTGGT TGAAATATAA GTTGGTAGAA  
CCATTATGCA AAACAGTATG A

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SEQ ID NO:1381: (Length of Sequence = 273 Nucleotides)

GCCACTACAC TCCAGCCTGG GACACAGAGC AAGACTCCCT CCCAAAAAAA AAAAAAAAAA TTATTAGAAA GAGGAAGAGA  
GAGATGNCAA AGCCTTTTCAG AGTTGGGTGT TGGGNGTITAG AGACCCAGTA CCCAGCCTG ACATACCTAC AGAAGCAGTG  
AATTTACTTA TTTACTGTIA TGAAAAAAT AGATGCTGCC AGCCGTGCAC AGCAGAACT ACTATTGANT CATATGGTTT  
TAGCCITCAC CTTTAAATAT GTCTAATTAT ATG

SEQ ID NO:1382: (Length of Sequence = 296 Nucleotides)

CTCCACAGCT GCCACATAGA ACAAGCAAAT CTGACATCAC AGCTCTTTTA AAAATCTCCC AGAATTCTAC ACTGGAATAA  
AGATCACCCA GTAAACTCAG CTATGTTGAT TCGTAGGAAT TTCTCCTTGG AGTTAATAAT AATCATTAGA AAAAAATAC  
AGGAAGAAAT AACTTCTCCT TATTCTTATT GTGATAAATT GTAAACAATAG CAGACATTCT TATATAGATC CTATAAGCGA  
CAAGAGGGAA AATAGGATTT GCAANTTAAG CATCTGGAAT AAATATTTTA GGAAAA

SEQ ID NO:1383: (Length of Sequence = 293 Nucleotides)

CCAAGGACCG GCGCGTGGG CTGCTCTGGG ACGCTTGTG GCGGGCTGC CCGCCGACT GGTACGGAG CAATNACCG  
TCGGTCATCT GCTCTGACCA CTTTNCCTCA GCGTCTTTT ACGTCTCTC GGTATCCAG AAGAACCTGC GCTTCTCCA  
GCGNCTGAG CTGGTGGCAG GCGCGTGGC CACCTGCGAN CNGGTGCCCC CCGCGCACC TAAGAGGGGA GAGGAGGGAG  
ACCAAGCAGG NCGCTGGAC ACGAGAGGAG AGCTTCAGGC AGCCAGGAT TCT

SEQ ID NO:1384: (Length of Sequence = 378 Nucleotides)

GGTGGTTTGG ACATGTAGAA AATAAGATGG AAGGCTGAAC TAGGGCAGTG GTGTGGCAA ATAATCAGAT TTCAGGAATA  
TCACAAAGTG AGGNGCCAG GATTTCATGAC CATTTTATG TAGGAATAAG GGAGGAGCCT AGGATGACTC CCCCAGTTT  
CTGGCTCGAG TAACTGGGAT ATCAACAAGT CATTTAGCAA AATAGAGAAA ATAGGAGAAG CAGCAATTG AGATAGAGAT  
AGAGGCAATA TAAAGNNTTA TATATTGACC ATGGTAAATC ACCTAAATC AGAAAGTTGT AGAAAAGTTG GGTCTGGANC  
TCAGGAAAGA CACTGGATAT GTAGATTGG AAGTTATCA ATCTCAAAGT GATTGCTT

SEQ ID NO:1385: (Length of Sequence = 204 Nucleotides)

TCATTCTTGG GTGTTTCTCG CAGAGGAGG NTTTGGCAGG GTCATAGGAC AATAGTGGAG GGAAGGTCAG CAGACAAACA  
AGTGAACAAA GGTCTCTGTT TTTCTAGGC AGAGGACCCC GAGGCCCTTC GCAGTGTGTT TTTCCCTGGG TACTTINAGT  
TAGGGAGTGG TGATGACTCT TAACGAGCAT GCTGCCTTCA AGCA

SEQ ID NO:1386: (Length of Sequence = 238 Nucleotides)

CCCCATCATG GGCAGCCAGA GCTCCAAGGC TCCCCGGGC GACGTGACCG CCGAGGAGGC AGCAGGCGCT TCCCCCGCGA  
AGGCCAACGG CATGGAGAAT GGCCACGTGA AAAGCAATGG AGACTTATCC CCCAAGGGTG AAGGGGAGTC GCCCCCTGTN  
AACGGAACAN ATGAGGCAGC CGGGGCCACT GCGATGCCA TOGAGCCAGC ACCCCCTAGC CAGGGTGCTG AGGCCAAG

SEQ ID NO:1387: (Length of Sequence = 295 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTTANTTAG GCAAGAAGAG GTGTGAGTAA TTGAGGAAAA ACTGACAGAT GCTTTTCTTA  
ATACCAAAAT TGAGCTTACA ATTAGGAAT GAGTATGTGT AACAGGTAC AGGTGACAGT GAAGATAGAA GAACCACGT  
GACCACAGAC TCAATGTGCT CTGTACATC GCACAGTTTA CCCAGCATGA CTTTCTTAG GAGGCCCTCT CTTACAGCTA  
GAGTAAAGT CCCAGTTAAG TGAAGCTTAC CAGAAGAACT AGTAGAAGAA GCTTT

SEQ ID NO:1388: (Length of Sequence = 201 Nucleotides)

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GCTAGINATC TCTCAGACAC TTGGTCGGTA GAAAAGATCC CGCACCATCC TCCAGGNICC AATGGCCTTG GAGAGAGGGC  
TGCAGGGCCC ACGGCATTG CTGACTCTTT AGAACGTGCT GACATGGAGC CAGACCACTC GGCCCTGAGT GCGGCGAGGA  
CCCNITTTNT GGATGTGGAG GAGCGCGGGC CGGAGCATTG T

SEQ ID NO:1389: (Length of Sequence = 399 Nucleotides)

GGTGCCCTGT TATCTGTAA AAGAGCCACT TATGACCTCA GGTGCTACTT AACCTGGGG GCAATTGTTT CTTAGGCCTA  
GCAGATGTTT GGGATGACAC TAAAACTCA GTGGTGAGAT GATTCCCTTA GCAAGATTGC TGAAGTTAGG TTTAGACGTG  
GGAGGGTGGG TATGTGAGCA ATGGTGCCAA TAGCGGCTCT TTATTGCTT TGTCCTCATT ACTGCCATCA GGAAGGTGCT  
ACTGGCCTCG AGCCAGGGTG TTCATAATCT GGCTTTGGGT TAACCAGACA AATAGAATT CTTTTCCTAG ACTGTTGGCT  
TTNIGGAGGT TGGCAGCTC TATCAGAGN TAAATTTCC CAAATCCATT TACCCAGTAT ATTCACTACA ATTTTTTCC

SEQ ID NO:1390: (Length of Sequence = 381 Nucleotides)

GGATTGAGGT GAAGATACAA CAAAGAAAGG AAATGAACG GAATTATTAA GAGGGTCAAG TTTGATAGGC AGATAAGACT  
AGGTATCAGC AAGACATTTC AAACAAAGG AACATTATGT AATTTTAA AAAAATACAT GAAATAATA TTTAANCAAG  
GAAGGAATAT GATAAAGAN GGATAGTTAG TAAATTTGG ATAACATAAA GATTATTGAA TCTCCAGTCG TCAAATTTAT  
CCTAACTAC TGGGGAGAGG TCTCATGTCA GATTTTGATT ATCGAGAAAG AGGGGTCAAG AGTATAAGNG AAATTCCTTT  
TTGTTTGAA CTCCAGTGT CCNCTATTG TGGGCAAATA TCAAATTCAA ACCAAATATA C

SEQ ID NO:1391: (Length of Sequence = 327 Nucleotides)

GAAGAAGTCC TTCTTAAGCA AGGCTTACAG ACTCCCAGGG AGAACAAAT CTCTTTATCT CTCTGGGGTT TTAGGACCTT  
CATCAAGTCA TAGAATTGAA ATAGAGAACA TCAATTGTC AACTTTTAA TTTTAATAGT TTTGTAGTA CATAAAATC  
ATGTTATGAA TTATTTTGTG GTTTTAATTA TAACTTTTT AGCATTTTT CCATATTCTT AAAAATTAAA AATTATGAGT  
NCTGAGAAAG CAGTGAAATC ACATATAGGT ATTTGATTAA CTTTATGTG ATCTTTTACC TCAAGCTAAT GTTCTTAA  
ATCAAGG

SEQ ID NO:1392: (Length of Sequence = 223 Nucleotides)

TTTTTAATA TTTAAACAA TTTATTTCAT GAAATATGC TGTACAATGC ACTCTACACA GCCTCGACAC GGCACACAG  
CACACGCACA CTCTGACGGC ACGGCCACGG TACACTGCCT ACGATACGG CCGGGGACGC CGCGCCACC GCCCGTCCCG  
GCCGGACACT TATAAATATG GGAGAAGGGC CAGAACTNGC GCGGAGAAAG GGGCGTCGGG GTT

SEQ ID NO:1393: (Length of Sequence = 296 Nucleotides)

GAAAGTTTAT TATTTCCAA TGTCCTTAC ATTTCATTT GGAAATATCA TTCTGACAG AATAGNTAC ATTATACCTT  
CGAAAGCAGA AAGATCTTAA TTAATTAAAA CAGTTTACAT TTACCTTAGC ATTAGGTCTG GCTGGCTAAT TTCAAAGGAT  
TAAAAATTGC ACCNATTTGG GCCAACTGGG GTCTGAATA ATTATCCNG GTAAAAGTAT AATATTTTAT ACITTTATACA  
TTTTGCTTCA TCACACATTT ACTTCCACA CAGTGNICAA CTCACATTT AAAAAG

SEQ ID NO:1394: (Length of Sequence = 281 Nucleotides)

ATCTTTGCAT CCCGGGACG ATTTCCAGTT GAGCATGGTG AATAATCTTT TTGATAGGCT GTTGGATTG AGTGTCTAGT  
ATTTTNTGG GCATTTTGC ATCTGINTC ATCAGGGATA GTGGCTTCA GCTTTCTTTT CGTGTGTGTG TGTCCTGTG  
TTGTTCTGGT ATTGGGGTAA TATTTGCCCT GTAGAATGAA TTTAGAAGAA TTCTTTCTT TTTGATTTTT TTGGAATAAT  
TTAAGAAGAA TTAGTATTAG TTCTNCTTTA AATGTTTGGT A

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SEQ ID NO:1395: (Length of Sequence = 323 Nucleotides)

CTTTTTTTTAA GATTTCAAAC TGGGTTACAC ACTGGAAAAG GCTGGGTTAA GGGCCGAAAT TTAATAAATC TGTACTGATA  
ACTAAAGGCT ACAGAGATTT CATATATTTT TTTTAACTTT TAGAAATCAG AGTGCTTATA AAATGGCTGG CTCATGGCTC  
TGTCACCCAG CATCTCTGAC GCGCCTCCT AGCCTTCGTT GGTGAGATAA CCNGGNATAG TGATTCCATG CGTAAACAAC  
AAGAATACTA AACCAATAAA ACTAGCTTAT CATGCAAATA TTANGGCATC TAGAAAGTCA GTTAAAATAA TATTGTCATA  
GAG

SEQ ID NO:1396: (Length of Sequence = 384 Nucleotides)

TGCCCTCCCG GTTCATGCGA TTCINCCGCC TCAGTCTCTT GAGTAGCTGG GATTACAGGC ATGCACCACC ATGCCTAATT  
TTTGTAAGTGA TGCCAGCACT TTCTTAGCAA CCCCAGCTGG TGTCTAGTA TGCCCCCTCC AGTCCACTGT CTCGCGGCC  
AGTTCAGCGC TAGGACTTGC TTAAGAGTTT CAGTCCCTGT AGCCTATACT GCCTTINACG TTTATTTAGA GATCTAGAGC  
ACTTTAACC TCAGTGGCAA GGTGTGTTGG AACTTGAGTT CGGACCCTG GGATTGGCAA ATTCCCCTCT GGGCTAGGGT  
TGCTTTAAAT GCTCCCTTCA CGTGTGGGCA ATCAGCTGAG TTTGGTCCAG TTTTCTTTTC TGCT

SEQ ID NO:1397: (Length of Sequence = 370 Nucleotides)

TTGAGTTTINT TCAGTGGCAT CCCCTGCTCC CCTGAGCACA CACAGTGTIT TCTATTTATG ACTGTAGTGC CAAGCAGAAT  
TTCCATGTC TGTAGCTG CCCATTCTCA CCCCTCAGGG TCTCATACTT CTCCTTGAA GCCTCCCAAG CAGTCAATGT  
GACAGGGACC AAGTATGTAC AAGGCAACAT ATTGGGTTC AGTGCAAACT AAGGGAACCA GGGCTGTITT TTCTAGTTTG  
GAAGTTTTTC TTTATCTTAA GAAAAGAGAC AGACAAAAC CAAGAAGATC AACAATAACT CTCTCTTTTG TCATCAGGT  
GATGACATCA AGGTACTGAT ATTAACCAGA AGTACAACA AGAAGGAATT

SEQ ID NO:1398: (Length of Sequence = 307 Nucleotides)

ATCAGCATTG GGTTCACACC AAAGTGATAC AAGTCTGAAG GTCTTCATCA GCAGTCTCCC TCATAGTCAG CGCCATACCG  
AAGAGSCCTG TCCCCTCTCAT AGGGCCTTCC AGCCACINCT TCCCCACAGG CCTGATTCTN CTGTGGCTGG GAGTGTGGAC  
TGATTGTGTA TGATGTGAGA GATCCCNNGG GGTTGTAGCT ACCGCACCTG GCTGAACTTT CAAGGAGAAG TTTGTGCATC  
ANTTTTCAAA AAATTATGAT ATCAAAGAT AGCTGTGCC TACATTGGG AAAGATACAA AAACCTTG

SEQ ID NO:1399: (Length of Sequence = 380 Nucleotides)

CTGAATTATT GAGGATGAAT TGATAAAGAC AGGTGTAATG AACTGAGGCC GGGCATTAGA CTGAGCAGCT GACTGTCCCT  
CAGAAACCAT AACCTTGCTA CCCCATTGG GCATTGTGAC AACTGTTGAC ATCAATGCAG ACTGCAAGIN AGTTGGCAAA  
GCTGCTGATG TGTAGCTGA AGTTGTGATG GGATTGGAAG TGACAAATAC AGTTATTTGA TTTGGGGCA AGGGAGTNGA  
AATGGAGGAA GAGCTAACAG GTCTTGACAT TACTGGAGGG ATGCTTGGTG CAACGTTAGA ACTGACCTCA CTCATTGG  
GGATGCACAA GGGATGAACA CAGCTCATTT CTGTINAGGT AAGTTTAGGG AATTAGAAGG

SEQ ID NO:1400: (Length of Sequence = 232 Nucleotides)

ATTATAGATA CACACCACCA CACCGGCTC CTCACATTAA AGTGGGNTA TGACCATGAA CACTTCGTAT TAATAAATGT  
CTCAGCACAC CCAAGCCTGA AAATCTGATC TAACTCCTT TAATTGAAT TCCATCCACA ATCCACAAC TNCCTGGNAA  
AAATNTNCC CAGCTTCTCC TTCTCTAGC CCAAGAAACA GCCTTAACAG CGNGCGATTT CATTCCTACA CT

SEQ ID NO:1401: (Length of Sequence = 349 Nucleotides)

AAGCTAAATT TATAATGAAC AGATTGAAGA AAAATAAAGA GCTACAGAAA GTTCAGGATA TCAAAGAAGT CAAGCAAAAC  
ATCCATCTTA TCCGAGCCCC TCTTGACGGC AAAGGGAAC AGTTGGAAGA GAAAATGGTA CAGCAGTTAC AAGAGGATGT

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GGACATGGAA GATGCTCCTT AAAAATCTCT GTAACCATTT CTTTTATGTA CATTGAAAA TGCCCNITGG NTACTTGGA  
CTGCTAAATT ATTTTATTTT TTACATAAGG TCACTTAAAT GTAAAGCGT TAAAGACAT CTTTNCINGC ATTGCCATCT  
TAATATC AGATATTACG GGATGTTAG

SEQ ID NO:1402: (Length of Sequence = 338 Nucleotides)

GTAATTGCTA TTTGATGTTA TTTTAAGAAA TTAACCCTTA AACTTTAAT TCCTTAAAC AATCTCAAAC AGAAGAAGCA  
AAAGCTTGTT CTGTGCTCCA GGAAATAAGA TTCAGCACCA ATGAAAATAA ATTATAGAAA ATCAGAAGAT GGGTCAATAT  
GAGTGGAAAA AACCTAACAT TTTAATTGTT TTTNCTCTCA ATAATTGTTG TGAACCATCC AAAAAAGTAT GATACAAAA  
TAGCACTATA CTAAGAGCCA GATGACATGT CCTTAAAGCC TTAGCTCTGC AAATTATTGG TTGTGTAACA CTAGGGNACA  
ACACTTAGNC TCTCCTAG

SEQ ID NO:1403: (Length of Sequence = 381 Nucleotides)

GGAGTCTCAC TTTGTGCCC AGGCTAGAGT GCGANGCGT GATCTTNGCT CACCACAACC TCCATCTCCT GGGTCAAGC  
GATTCTCCTG CCTCAGCCTC CTGAGCAGGT GGGGTTACAG GTGCCCGCCA CCGCACCCAG CCAACTTTNT GTTCTCAGCA  
GAGACGGGCT TTCGCCATGT TGGTCAGGCT GGTCTCGAAC TGACCTCAAG TGATTGCCCC ACCTTGGCCA CCCAAAGTGC  
TGGGATTATA GCGGTGAGCA CTTCACCCTG GCCTCTAAGC TTAATCATTT CTAGGCTTTT NATTTAAAGT GAGAAACATG  
TGACTCTTTC CTTTCATTGG GGACACTTTA AAAGGGGTTA TTAAATTGAC CCTAATTACA A

SEQ ID NO:1404: (Length of Sequence = 325 Nucleotides)

AGCTCATCAG CTATCATTTG TGTTAGTGT TTTNATGTAT GGCCCAAGAC AATTCTNCTT TTTCCAGTGT GGCCCAAGGA  
AGCCAAAAGA TTGGATACCC CTGACAGGAT TCCAGGATTC TTTTGTAAT NCTCAGAGGC CCTCTGTGCA TACTCCGTAA  
GGACTATCCA CATTTCTTAT TACTTTTATT GGCAATAGGT ATAAATTTT ATTTGTGGN TATTTTACTG NAATGTTACT  
TGTTTTTGCT TATTTACTGA TTGGGTGGGA GGAAGTCAAA GGATGAATAA ATCTAACCN TTTTAAAAAG GAAAGGCTAA  
AATA

SEQ ID NO:1405: (Length of Sequence = 349 Nucleotides)

GGATTATGAC TGAACGTCCT CAGCATGTTG GCCTTCACCC CTGGCGGTGG CTGAACACA AAGATGCGGC CCGCAGGGAG  
CAGATTCACA GGCACCTTGG GGTGATCTC CATGGTTAGG AAGAGTCGGA AGCAGGCATG CGGCTGCAGG GAATGCAACT  
TCTTCTCCAG CTGCATCAGC CACCCTGGGG CCAGATGCAC ATTCTTCAGC ATCACCACC TGCCCGANTT TACAAGCGGT  
GTTTTATTGC CTTATCTGCT TNGTTAAAGC CTCTTCAGA GCGGATTGCA ATTGAAGGGA TCTTCGGGGT TCTNCTCGGC  
TNCAAAGGTC CTCGACAATG TTCCCTTG

SEQ ID NO:1406: (Length of Sequence = 392 Nucleotides)

GGACTGCCC TTTGTTTATG AGACAGGGTC TCATCTGTG ACTCAGGCTG GAGTGCAGTG TCATGATCAT GGCTCACTGC  
AGCCTCGACC TCTCAGGCTC AAGTGATCCT TGCATCTCAA CCTCAGAGT AGCTACGACT ACAGGTATGC CCCACTATGC  
CTGGATAATT GTCCTTTT TTTTTTGGT AGAAACAGGG TCTCATTCTG TTGCCAGGC TAGTCTCAA CTGCTGGACT  
CAAGTGATCC TTCCAATCG GCCTCCCAA GTGCTGGGAT TACAGATGTG AGTCACAAATG NCCAGCATGG ATTGTCTTT  
TCAGACCCAG ACCAAAGAAC AGGACTTATT TGTCCCAAGA CCAATCTAGG NAAAGTATAA GCTGTGTGT CA

SEQ ID NO:1407: (Length of Sequence = 362 Nucleotides)

GTTAATTGGG NTTCAACAAGC AATAATTTCT CCACAACAA AACCACAAT TGAAGNGAGT TGAAAAGNGN TCAATAGTGG  
AAACAGTGGC CTCAGTACTT TTNCTTTCTG GNTTTCATCT CTAGAAATT NAAGTGTPTN AGNCAGAGTC CACCCTTTG

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GCAAGGCGNG AACCNATGAA TGGACTCCTT GTGTGAATTA TTGCATCTTC TTCCAAAGCA GGTCATCAA GACTTTTACA  
GAGATTTCATT TTINITGAGA AGTAAGGGTT AATAGGAGGA TAGAATTTGG TTCCNAATCT AGTGNATAAA GTGTCCAAGC  
AAATCAAAAA GTAAGATATT TTAGGGGCCA TACCCACATC TT

SEQ ID NO:1408: (Length of Sequence = 388 Nucleotides)

CCCCGAGCA CCACGAGCTG ACCTCGCTCT TOGAGTGTC GGTCTGCTTT GACTATGTCC TGCTCTCTAT TCTGCAGTGC  
CAGGCCGGGC ACCTGGTGTG TAACCAATGC CGCCAGAAGT TGAGCTGCTG CCCGACGTGC AGGGGCGCCC TGACGCCAG  
CATCAGGAAC CTGGCTATGG AGAAGGTGGC CTCGGCAGTC CTGTTTCCCT GTAAGTATGC CACCACGGGC TGTTCCTGA  
CCCTGCACCA TACCGAGAAA CCAGAACATG AAGACATATG TNAATACCGT CCTACTCCT GNCCATGTCC TGGTGTCTTC  
CTGCAAGTGG CAGGGGTCCC TGGGAAGCTT TGATTGTCCC ATNTNAATGG AACGGCCAC AAAGAGCA

SEQ ID NO:1409: (Length of Sequence = 348 Nucleotides)

CAATGAATC CTTAAGCTTT GTTAATATGA GAATGTCCTT ATCTCTCTT TATTTCCAAA GGACAGCTTT GCTGGTTAAA  
ATATCTTGG TTAAGTTTGG TTTTATGATC TTAGCATATA TCAITCCACT CTCCTCTGGC CTGTAAAGCC TCTGTGAAA  
GATCCACTTC TAGCCTTATG GAAACTCCCT TCTATGTAT TCGNTCTCNC CTCCTGCTGC TTCCAACATC CTGTCTTTGT  
CCATAATTTG TAACAGATTG AATATAATAT GAATTAGNCC TCTTTAGACT GAATCTCATT GGAGNCTTTT CACCCTTCTT  
GTTTTGGGT ATTTATNTCT TTTCACAG

SEQ ID NO:1410: (Length of Sequence = 370 Nucleotides)

GACTATTTAT TCTGCCTTAA ATCAATGGCA AATAAGTCAA GATGACATTT TGTAATGTA GACTATGGAT ACACTCCTAA  
TAGATTGATG TAGTCATAAA AGGGGGTCAA GTAGATGTTT TNCCTGTATG TAAGCAATAA TTTTCCCGTG TCTTATTGAG  
TATGGCTAGC GATTATTTAT TACATGCTAG ATGGGTTCTT TGCATGTGGG TTCCATATAG GTGCAGAAAT TTCCTCAGCC  
ACTGGAGGGA TTTGACCAT ATTTGTCAIT TGGATGAGCT GTTATTAGAT TGAAATCTAC ACATCATTTT ATTAAAAATT  
GTGCCCTAGA AAACGCAAAG CTNITGCACA ATGGCGATTA AAATTATGGG

SEQ ID NO:1411: (Length of Sequence = 385 Nucleotides)

GTCTCAAACCT CCGACCTCA GCGATCCAC CCACCTCAGC GTCCCAAAGT GCTGGGATTA TAGGCGTGAG CACCGCACCT  
GGCCTATGAG TGGTCTTTTA ATTAGGAAAT TTACATTTTT ACATTAGTGA GATTGGTCTT TTGGGCTATT GTACTTTTTT  
TTTTTTTTTT TTGAGATGGA GTCTGCTCT CTCACCCAGG CTGGAGTGCA GTAGTGCAAT CTGGGCCAC TGCAACCTCT  
GCCTCCTGGG CTCGAGTAT TCTCTGCCTC AGCCTTCCAA GTAGCTGGGA CTACAGGCAT NTGCCACCGC ACCTGGGGTA  
ATTTTNGTGG TTTTATGATG AGAATGGGGG TTTTGCTAAT GTTTGGCCAG GCTTGGGCTT GAAAT

SEQ ID NO:1412: (Length of Sequence = 337 Nucleotides)

CCATTCAGAT TCCTCTGGG CCTCCTCGCC CCATTTGCGA CAGATTGCT ACCTGCTCCA GCTCAGCGAC CCTTCCCTCT  
ATGATGAAGT GCATTGAAGA GAACAATGGT GTGGACAAGA GGATCAGCAG GTTTATTCTC CCCATCGGG CCACCGTGAA  
CATGGACGGA GCAGCCATCT TCCAGTGTGT GCGCGGGTG TTCAITGCGC AACTCAACAA CGTAGAGCTC AACGCAGGAC  
AGATTTTCAC CAITCTAGTG ACTGCCACAG CGTCCAGTGT TGGAGCAGCA GCGTNCAN CTNGAGGGGT CCTCANCATT  
GCCATTATCC TGGGAGG

SEQ ID NO:1413: (Length of Sequence = 367 Nucleotides)

ATAAGTGGAG TGAAGAAAT AATGCATAGT TCAAGCCTAA ACAATACAAG CATCTCAGC TTTGGAGTCA AACTGAAAA  
TGAAGATCAC CTGGCCAAGG AGCTGGAAGA CCTGAACAAA TGGGGTCTTA ACATCTTTAA TGTGGCTGGA TATCTCACA

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ATAGACCCCT AACATGCATC ATGTATGCTA TATTCCAGGA AAGAGACCTC CTAAAGACAT TCAGAATCTC ATCTGACACA  
 TTTATAACCT ACATGATGAC TTTAGAAGGC CATTACCATT CTGACGTGGC ATATCACAAC AGCCTGCAAG CTGCTNATGT  
 AGNCCAGTCG ACCCATGTTT TCCTTTCTAC ANCAGCATTG GACGGTG

SEQ ID NO:1414: (Length of Sequence = 360 Nucleotides)

GTATACAGCG TGGTCCAGCC ACCCGACAGC GAGATGGGCA TTTTAAGAAA CGCTCTCGGC CAGATCTCCG AACCAGAGCC  
 AGAAGGAATC TMTACAAAA ACAGGAGTCA GAACAAGCAG GGGTTGCTAA GGATGCAAAA TCTGTGGCCT CAGATGTTCC  
 CCTCTACAAG GATGGGGAGG CTAAGACTGA CCCAGCAGGG CTGAGCAGTC CCCATCTNCC AGGNACATCC TCTGCAGCAC  
 CCGACCTGGA GGGTCCCGAA TTTCCAGTTG AGTCTNTGGC TTCTCGGATC CAGGCTNAGC CAGACAACCT GGGACGTGCC  
 TCTGCATCTT CAGACAGAAT TNCAGCCTG CCTNAGGAAA

SEQ ID NO:1415: (Length of Sequence = 314 Nucleotides)

CTCAAACACA GCATTTGAAG TCTTAATATT TTAGTACATA CTATACTATC TCINCTTACA ATTGTTTTTT GTTAAAGAAA  
 CCATGTTTTT NATCTAAAG AGTTTCCTTT ACTGTGGATT TTAGTGATG CATCTTTGTT GATGGGTTAA GATTGTCCNN  
 TATAGCAT TAGTNCCTTC AATGTGCTGT ATTCAGTGT GCTCTGGGC TCCTAAACTG TGGAGGGCTG TTTGTCCCTA  
 TTTAAATGG GGACAGATTG TCCTGCTTTT TAATTTTCAA TGCTGACTT TTACCCNCTA ACTTTTCCGT AGAT

SEQ ID NO:1416: (Length of Sequence = 370 Nucleotides)

TTCCATTTTT GCTCCTCTC AGGATAATAG CAGACCGGTG ATCACAACCT TAGTTTTGAT GAGATAACCT CCTTATCT  
 TAAAAATGGT CTCTATTATT TTCCAAGAGA AGACCAGTAA ACCTAAACA CCTGCCTTGA TCTCAGTGT TTAGATGTTT  
 TCCTGTTTCT CCTTTATCCT AGCAAACTCC CCAGGTGCT ATCTTTATTC CCATTTTATA GATGGGCAAC TGGGTAAAG  
 AGGTAAAGCTT GGTGAGGTCA CTGAGATAGT GGGGAAAGGA GCTTGGTCA CATCAGGTAT GCATTCCTCC AAGGTCCAC  
 TGGGCTATCT GAAGGAAGGG GTTCTTGAA GTGCAAATA TAGGGTACTG

SEQ ID NO:1417: (Length of Sequence = 365 Nucleotides)

GACTCCTTCG CCAAGGGAG CATCAGCACC AGTTGTTC CAAGCAGCC AACACCAGTG ACCTCCCTTC TGCTTCGGC  
 CAATCCCGAC AGAGCTCTT CCCGAGTCTT GAGTCTCTG ATAGCTGCT CAATAAGCA GGACTCGGA GTGTGCTTCT  
 CCTCTGCCAG CTGTGCTCT AGTGCTACTT TCTCTCCAG AACTACCGG TGCAGCACCT GCTCCTTGA GGCCAGCAGC  
 AACTTGGAGT ACTGGCTGT CTGTTCATCT CCTAGATGAA TGGGATGGT TACATTATC CATTTGGGAT TTGGGCAAA  
 AGCCACCAAC AACCCCTTTT TTTCCCTCTT CAATCAAGCT GCAAT

SEQ ID NO:1418: (Length of Sequence = 354 Nucleotides)

CCAAATCCTT AAGTTTACAA AGCTGTGGA AAACCTTGTG TCCTGATTTC AACAAACAG CTTTGTTTGA AAGATGAGCC  
 AAGCTCACAG AACTAAATT TTATGTCATG CCATAAGCTG GAGAGGAGCC ATTGGCTAC AGCTGCGGAA CTTCATTGAG  
 GAGCAAATGA AAGGCACATG GACGAGCAG CTGGTGAGT TCATGTTCTT CTGCTGTG AATTGAATAC TGTCTGGTA  
 GCAGTTTGG GTCCGTCAGG AGCTCAAGGC TGGTTTGTGT GGCTGACTAC GGATGAGCAC TGAAGTTGCC TCAAAGAATT  
 AAGGGGTGTC CACANCAGCC TCTTGGGTC TTTT

SEQ ID NO:1419: (Length of Sequence = 363 Nucleotides)

GTGGAAAACG TGGAAATGAT GTGGCCACTG AAAGAAATTC AAGACAACG AAACAACGTC AGATTTCAT TTTAGCTCG  
 TGTTCCTTA TGAACAATA CATTGCAGAA GGGGAAATAT CAGAAAGTTG ATTGATTTTT AACCCAAAA TAGAATTTT  
 TGTAAGCTAG GAAAGCATCT AAAATTAACA AGAATACAAA AATGCACTTT TGTTCATT TGCTCTATT AGATCTTACA

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AGAGATTATG TCTTGAATCT ATCCTGACTT CAGCAAAAGA CAAAAGAACG TTGAAAACAT CCTATTTTCCA AATCGTTTAC  
AGGAAGTTAC CTAAGGAGNC TGACAGATTG AACGGCTGCT ACC

SEQ ID NO:1420: (Length of Sequence = 326 Nucleotides)

GAAGATTTTC TAGAAGCAAA TAGTGCCACC ATCCGTCATG AGGNTCTGTT TCTATAACGC TTGINTGTCT TTNAGACTAC  
GTAGGTGGTA GCITATGAGT AGTAATGINC TTTTGTTAGT AAATGTCACC AAATAAGCAA ATAAGAGAAA CATGAAGGCC  
AAAAACTGIN TTACTATICA GGAGAAAATG GACGGTTTAG CAACAATACA ATGTAGACTT CAAAATATGA AAAATCAAGG  
AAATTINCIT CATTGTCTTT AAGGGCCTCC AGAGAAGTAT TAATTTGTCC TTTATGTGAA TTTAATGAGA TCATGTGAAA  
TGTATG

SEQ ID NO:1421: (Length of Sequence = 294 Nucleotides)

ACCCAGTACA GGTACTCTCA CAGGAGGCAC TCAGCAGGGA TGTAAGTACA GCAGGTAAGA NTCCACCTCT NTCCCTGCCT  
GNCCTGGGA TCCAGTATTG CCCCATGTAT CTNCCCATT TCCTCAGGCT TCCTGGACTT TTNTGGAGG GAAAGAGGAA  
CAGAAAGAGG AGCAGGCAGG AGAAGCAAGA GCTCCCGGG GCTATGAAAG GTAACATACC TGGAGAGTTT NGGAGAGCGG  
CGGCTTGINA GAGACAAGGG GAAGAGACAG AACAGGAGT ATTCTAAGAA GCAT

SEQ ID NO:1422: (Length of Sequence = 306 Nucleotides)

GAAGGGCATA TTTAATAGCT GCTGCAAACA TATGGAATAG TGCTTTAATC AGTGGTGAAC AAGAAATTC CTGTTGTGG  
TTATAAAAC AAGGGACATT AATGINCTTG TTCTGTACC ATAGTAATGT GNAAAAAAA ATAGTGGTGG NAATGGTGT  
TAATTTGTAC AGTTTGITC AAAGTAGAAT GGGNCAGATA TTTTGGTGA TAGGCTTTTG TCTTAGTTAT AAAAATTAGG  
NCATTTGGTA TGATAAAGC NGAGAATCTT AACAAATGGG CACTGGCCCA GAAATINCA GGGTGC

SEQ ID NO:1423: (Length of Sequence = 274 Nucleotides)

TGTTGTGTG TGTTGTGTG TGTTGTGAGAA ATGGGGAAAG ACTGGTCTAG ATAATATTTT AGGTACCTTC CAACACTAAA  
ATGGTATGAT TCCCAGCTTA CAAAAGCAA ACTATTTTAA TATTCACCAC TCAATATAGT GTATCAAGCT CTCGGTTTAT  
GTTAAGGGC TTAGGGAACA GCAGCAACTA TTCTGTGGCA ATTAAINCAA AAATCTATGT TACCAAAAAG GCATGTTTAG  
GNCTGCAGG ATAGTGAAAA AGCAAGAACA GTCT

SEQ ID NO:1424: (Length of Sequence = 297 Nucleotides)

GGAGGATTAC TTGAGCCAG AAAAAAAAAA AAGCCTCAGG GGTTCGGTG AATGTGTGTG GGACTTCCGT GAGAACAGAC  
GTTTGATGTG AACTGANITC AAGGCTGATA CAGCCAGAA CCAGGNACAA GGTGAGAAAC TGCTCGTTTC CGGGAGGCAG  
GACTTCCTAA CCGGGAGGCA CTGCAGTNC CTTCTGAAA CAGGTTTGA GGATAGGGAA ATTCTGNC GCGCGGGGG  
ATCCACTTAG TTTCTTAGNA GCGGCCGCCA CCGCGTGA AGGCTCCAGC TTTTGT

SEQ ID NO:1425: (Length of Sequence = 276 Nucleotides)

ATTTTTTCAA GGATGGAAAG GTCAGAGAAA AATAAAATAA AACATCTTTC AATAGTCTTT CCTGGTAAAA GCAGCGTCTC  
TNTGGGCTGG GGAGTAAAGG GTGTGGGCA AGGGGAGTGG GGAGAGGCTG TAAACCTTCC CCCAAACCCC AGTTTTAGAT  
CCTTTGGTTT CCTTCTCCCA GAAGATGGNC AGAAGGGCAT NGTGGGNAAC AGCAGGGNGG AAAATATGGT GATGACAAAC  
CCCAGATGAT CAAGGGGCTG ATGCTCCTGG GGGCCA

SEQ ID NO:1426: (Length of Sequence = 295 Nucleotides)

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TAGTGGCATA TGGACCGGAA AGGGTTAATT TAAAGGGGGG GAACCTCAAA AGTTTTTTTA AAAAAGAAAC TTGTCTGCCA  
CAGTATGTTA CCAGTGTTAA CCTTCTGCC AGTTAGCAAA CTTTTGCCCTT AAGCCTTTTT CCTCTAGGAT ACTCCCCATG  
TTTCGGTAAT CTGGGGCATA CATTTTTTAA GNATGGACCT CTTTGCCCTTG TTTTGTTC ATGCTGCTGT ATGTCCAAGT  
ATTGTTAATT TCATAATAAG ACAAGAGTTG CTTTCTTTTT TAAITCCTTT TTCCC

SEQ ID NO:1427: (Length of Sequence = 207 Nucleotides)

TCAGGAATGA TAGTATCTGG GATGAACCTT TCTTTAATAA GATTCAGGCC AGTNTGGTG GGTGINTGCG GATGATTGTT  
ACTGGNGCAG CCCAGCATC ACCAACAGTT CTGGGAATTT CTCGGGCAG CTCTAGGGTG CCAGGTTTAT GAAAGGTTAT  
GGCCAACTG AGTGCCACAG CTGGATGTAA CCTTNCACCA CTCCTGG

SEQ ID NO:1428: (Length of Sequence = 223 Nucleotides)

TAACATTCTC TCCAACTCC CCAGTCCCA TCAGTGTTGA GAAGGAATCT AGGCCAGCTC CTGGGAGATG CCAGTTAAGC  
CGCTTTGAAT CCGTGCCCTT TCCAATTGNC CCTTATAGCA GTCGATGTCA GGGATTGGGA CAACTTTCAA AACAAAGTCCA  
TCAAAGTCCC CATGGGCACT AGGGGCTCTG GGAACCCAGT GTCGAGAGGC TTAGAGNCAT TGC

SEQ ID NO:1429: (Length of Sequence = 222 Nucleotides)

AAAACCAAGG AGCAAAGGGG AGACAGAGAG AAAAGTGGGA TGGATTCAAA GACATTGCAA CATAGAACTN ACCGAACTGG  
CTTGINTGAG GTAAGGGNGG CAGGATGACT CACAGGTTTC TGGGATTATG TGCAACAGGT GGAAGGTGAT GCCATTAGCC  
AGAATAAGGC TGTAGGCTNA AGGGGAGTNA AACTGGTCTT GGGGTATAA CATTGATAGG CC

SEQ ID NO:1430: (Length of Sequence = 246 Nucleotides)

CAAAATTTCC TGTATCCTTT CATGGGTTTN CTTTGTGTTG TTTTGGTAAG AACATTTAAC ATGAGATGTA TCTTTNAGTT  
GTTGTTGTTG TTGANCCTTT TTAGATACAT AGTCTCACTC TGTTACCCAG GACTGGAGTG CCAGTGGACA TGATCCACAG  
CTCACTGACA GGCTCAAAC TCCTGGGACC CAAATGAATC CCTCCACCT NCAGCCCTCC CAAGTAGGCT AGGGACTACA  
GATGTG

SEQ ID NO:1431: (Length of Sequence = 364 Nucleotides)

CTTNCCTC GATGATGCTT CTATAATTT GCCCTTTAAC AGAACTTTC AAAAGGGAAG AGTTTTTGTT AATGGGGGAG  
AGGGTGAAGG AGGTCAGGCC CACTCCTTC CTGCATTGTT TACAGTCATT GGAATAAGG CATGGCTCAA ATCGGCCACA  
GGGCGGTGA CCTGTGCCC CAGGTTTTTG CCCCCAAGTG CCTCCATTTA AAAGCATTAA GGCCGGTACG GCATCTTCAA  
AACAGAGGGC TGGCATTGGA GGAAACCCCT GCTGCTTTAG TCCCAGTAGG GTATTGAAC CCGCCTATA TTTTAAGGCA  
TTTTAAATTC TCTTCCCCC ATTTTATGTA CTTTGAACAA TTAA

SEQ ID NO:1432: (Length of Sequence = 208 Nucleotides)

GTGAGTNAAC ATGGATGGAA ACAAAATTAT AGGTTGTTCA AAGTGAAAA CACCAAAAT AAGATTTAAA AAGAATGTCA  
GGTATCCATA GAAAAATATT AATAGGTCTA ATACATATGT AAAANTTGGC GTCCAGGGG GNAGAGACTG NAAAGTTATA  
TTTTNNATGG CTGAAATCCC CCCAANTTTA ACATAAAGCA CAACATTT

SEQ ID NO:1433: (Length of Sequence = 274 Nucleotides)

GGAAGGTTTT TAATCATGA AGTATACTTG TGATCCTGGA GGTTGGAAAA GATTCACTAA AGATAAAGTT TGGCAAAAAT  
GATTCTNTCC CTAGGATTTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTTTGT

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CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCTCT CAGCCCTTGC AACTGTTTCC NATGACTTTG GACTTGGCCA  
TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAA

SEQ ID NO:1434: (Length of Sequence = 249 Nucleotides)

GCTCCATAGG TCTAAGTTTG ANCTTTTCTA GAAAAGGATT TGCAGGACGA TCTGACGAAT CTTGGGCTTC CAAATTAGTT  
CCAACAGTTC TAGTATTTTT TTTTITTTTT TTTTGACAGA AGCAAATAAG TAAGTTTINAC TTTGTGATTA AAACAAAAGT  
GAAATGCATT TAGTCCCAGG AAATGNCAT CCTTTCTGCA TCTNACTTTT TTTTGCTGTG ACCTCGAGNT TCTCTGTCC  
TCTTCAGTT

SEQ ID NO:1435: (Length of Sequence = 201 Nucleotides)

GAATGGGGCC AATGGCACTC ACTGINTCTT CAGGCCCCCA CGGACGGCAT GCCTGGGGAA GCCTAGTCTA CTTACCATCA  
GCACGTTGAT CTNTCACA CAATGGAGCC ATAGTTTACA AAGGACCAAG GCAGGTCAAG GACAGGCCAC TAAAACITTT  
GGTGCTGGGC ACATNACCCA CCTCACCAN CATCAAAGAC A

SEQ ID NO:1436: (Length of Sequence = 312 Nucleotides)

GGGAAAGGTA TATTAACCTT CTGCATCAA GAITGAACAG TCATGGGGTC TTGGTGGCCA TCTGGTCTGA GTTAGGTACA  
GGACAAGAAA GAGTCAATTA ATCTATAATA AAGATCAATG ATTGAAAGAA GGGAGATCTG GTCTCTGTCT CTCCTAGTCA  
TTTACAGAAC AAGAGCAATG AGGAAGACCG TTATGCTATA ATCTAAGNAA CAGAATTGGA AATATGCTAC TGACTCAGTC  
TCCAGGGGCT TAACITCCCC CTGGCATAA TAAATTTAAG GAGTCCTAAA ATTTTATTTT CCTTACATT GG

SEQ ID NO:1437: (Length of Sequence = 294 Nucleotides)

ATTCCAATGG TAATACTAAC GAATGTGCT ATCTAAATAT TGGATAGTAA AAACGTCAAC ATTTAGAAAA TGTATATCAC  
ACAGGGAACC AATATTTTNC AAATTATCCA CATCTAATAT TAGGCAACCA CGCGCAANAA AAGACACGTT CAAAGTACAG  
GAGAAATGGA TGGATTTTAA TGTGAGATAG TACAAGANGT TTATTGATAT AGTTTCAAGA TTCCATATTG TAATAAACCT  
TTAANGAAAC TTTCACTTCT TGAGTTTTGG GTATAGGAAT CCAAAAAAAA AAAA

SEQ ID NO:1438: (Length of Sequence = 311 Nucleotides)

GGCCCTTTGA CTTTGTAAT GAGCACAATG AAATGCCGCC TACTGATGCT TCTNATGATC AGAACTCTTT TTTAATAAAA  
TAAATAACAT AAATCGTTGA ACATAATGTT CCNGTTGAAT GCAAANCAAA AAAAATATGG NAAACATTTT GNTAAAATTT  
TTTCCNGNTA AAACCATGAA CANTGGCTAT GATGAAGGTT ATTACATATG GAAAAAAAAC TCACACAAGC ATATTTGNAT  
TTGGCTTGAA GGGAAACCAT CATTAATGC AANGCTAGGG ATTCTTTTNG AAGCAGTTGA TCCTCAGGTT T

SEQ ID NO:1439: (Length of Sequence = 265 Nucleotides)

CGTGACACAG TTGAAGGAGT CGCTTAAAGA AGTCCAGCTG GAGAGAGATC AATATGCTGA ACAAATAAAA GGAGAGAGGG  
CCCAGTGGCA GCAGAGGATG AGGAAAATNT CGCAGGAGGT TTGCACATTG AAGGAGGAGA AGAAGCATGA TACGCATCGG  
GTAGAGGAGC TNGAGAGGAG CTTNTCCAGA CTCAAAAACC AGATGGCTNA GCCACTGCCC CCGGATGCC CAGCAGTNTC  
CTCTGAGGTG GAGCTNCAAG ACCTT

SEQ ID NO:1440: (Length of Sequence = 241 Nucleotides)

GTTTTACTCT TGTGAAGATA GCACITTAAT CCTAAATGAG CATGTAAAGT GTGACAGATC CTATATCAGT TTTAATAATT  
GAAGCAGATA GTAATACTA GATTATTGAC ATTTTGTNGT CATGTGTICA GCTATTGCTT CAAACTTGCT CAAATTATAC

340

TTGGNATTTT ATAGTGTTTT ATTATTATA TACTCINCTT GTAATAANNT GGTAATCTAG TTTCCAGAAT CATGCAAATA  
G

SEQ ID NO:1441: (Length of Sequence = 247 Nucleotides)

GACCCCGATA TTCCGGCATC ACATAGATAT CCTCCAGATA AANGGTGCGT CCCTTCCATG TACTGTAGAT GAAATAGTAT  
ATCCCATAGC CCACCACGCA GGGCCCCAGT AGCTTCCCGG GCGCTGGAAG AATCTCTGCT ACCAAACAGT GATAGAAAGG  
ATTGINTCCA AAGCCATCTG CTCTCAGGGC TTCTTCACTG ATAGGNGTIT TTTTCAAGNA ATAATCCATG CTAAGAATGG  
GGTATTT

SEQ ID NO:1442: (Length of Sequence = 233 Nucleotides)

GATTACAGCC AAGTTCATGA ATACAAATAA AATAGCAATT TCCCTCATTG TCTCTTTTGT TTTCTGNTCA GAGAAATCAG  
GAGATGGGAG CATTATGCTC AGAAACCGAA GAGCTCTTCC AAGAGCTCCA GCITAGAGTC CAGGCTTCCA GAGCATGCAG  
CCTCCTAACA CGTATGTGGT CACATGTGCA AAGACCTINTA TTACAAAATA TTCAGAGCAG NATTTCTINTT AGG

SEQ ID NO:1443: (Length of Sequence = 288 Nucleotides)

AATAAACAAAT GTGCAGTTT TTATACTGA TCGGAAGAAG GTTGACCCNC AGTTATCACC TTTAAAAAAT GGTCTTAGTT  
AGGCTTTCTC CTTTGTCTT TTTCCAGAAG AAACCTGGAG TCTGTCAAAT TTCACAAAAT ACCCTGTGTA GATTTTCCTT  
GGCTTTGATA AGGGTGAATT CACAGATTAA TTCGGAAAAG AATTTACGGC TTTCTAATCA AATTGTTCTT TCCAGGGGNT  
TTTGTGNTTA TTTAGGNCCT TCTAAAGGTT AACCTAACT TGTATTAT

SEQ ID NO:1444: (Length of Sequence = 208 Nucleotides)

GGAACTGAGT CACAGGGCCA AAGCCCCCTT TNCCTCAGT GAAGCAACTC AGTAAGATGG CGGTGCAGTG AAGCCTATTC  
CCACACACT CGGCACTGAT GGAGCAGTCT CCAAAGGAAG GCTGAAAGGA CAGCAGGTGG TTGCCTTNGG GTCCTTCCTT  
CCCATANCIT TAGAGTGCCA TTTTTCAGCA ATGGGTAATA GCATCAAC

SEQ ID NO:1445: (Length of Sequence = 239 Nucleotides)

CCCCGGTCTC TNGGACACCA TTTTCTGCCG CTGGACGCAA GGGTTTGTGT TTAGAGAATC AGAGGGATCT GCATTAGAAC  
AGTTTGAAGG TGGCCCCGTG NCTGTTATG CACCTGTNCA GGCATTTCIT TTGAAGAAGC TCCTGTTTTT TCCGAGAAG  
TCTTCTTNGC GGGATTTTTC AGAGGANGAG CAGAAGGNAC TCCTTTGTCA TACCTTGTGT GATATTTTAG AAAGTGCTT

SEQ ID NO:1446: (Length of Sequence = 243 Nucleotides)

TGCAGGGAAT TTNTGATGC AAAACCAGGA AACAATTTAT CTCCACTGGG AATACITTGA AGAAGGGATT AGAGCGGGGC  
TAGGGCAGGG AGGATCINTA AAAACAATA TTTGCCAAAC TAAAAACACA TAGGCACACA TGGGNATTAT TTTACTTTCA  
ACAAGTTCTG AAAGTAGTAA CAAAACCAGG GAGAGTTAAA AGAATAATTT AACACTNA'G NTTCAGGAAT GCTAAAGGAG  
ACC

SEQ ID NO:1447: (Length of Sequence = 371 Nucleotides)

AGTTATAAAT GAACATCTGT TGCCTACITTA ATAGGTCATT GAGTAGCTGT GACCCATTCT TAATTGTAT GTAAGCATAT  
TTTTTACATA TTTGTATCTA CTTCAATTTT CCTTGAAGCT TGCCAAATIG GTACATTC A GTTTGAAC TG ATGTCTCTTA  
TATGCTGTAC CACCTTCTTA AAAATTGAAT TATCTTTCTT TCCACCTAGA TTGTTCTCAA AGCATTGTGT TTTGCTGGAC  
TTTCCACTCT TGACCATAAG ATGGTAGCAT TCCTAAGGA TATTGCAGCA CAGTCTAATT CCACTGGTTG TCATCTACAG  
TTAAATCGCA AATAAAAAAT AATAATAAGC AGCAACTGAT TGCTCAAGTT G

SEQ ID NO:1448: (Length of Sequence = 366 Nucleotides)

AATTTTGTGT CCTGTAGGAA ATGCTTCCTT GGGTGTGT ATTATAGCCC AATCCAAGTC ATCCCTGAGA ACATCCCCAG  
GTTGTAAGGA TTAGTCAGAA GTCATGATGA CTGTCTATA TAAATATTG GCCTATTAAC TAAAATTAGT ACCTTNCAT  
TTCTCCNCTT TCTTGGGCGG GGCAGCGGG GAGTGCAGGG GAGGGGAAAT AGGGAACGTN CAATTGTNTT TTAAGTAATG  
CTCATAAAAT TCTTAGNCAA AGATGATCTT GCCCTCCACC TTGGTGACCC ACCGCATACG GGTACATCT ATCTGGCCTG  
TCTCTAGGCC TAGACAGAAG GAACAGGGAG GGTATGTGT AACCTT

SEQ ID NO:1449: (Length of Sequence = 234 Nucleotides)

GTGTGGGAG GGACCCGGT GGAGGTAAT GAATCATAGG AGCAGTTTC CCCATGCAGC TGTGNGATA GTNAGTTTCT  
CATGAGATCT GCTGTTTTA TAAGCTTCTA GTGTTTCCCC TGCTGGCACT CATCTCTCT CTTGCCACCC TGTGAAGAGG  
TGCTTCTGC CATGATTGTA AGTTTCTGA GGCTTNCCTA GCCATGCAA ACTGTGAGTC AATTAAACCT CTTT

SEQ ID NO:1450: (Length of Sequence = 220 Nucleotides)

GCTTTTNTC TCCCTGTTT GTTTGTAACTAAGGAAGC AGAGCCTCTG AGACCACACA CAGCAGGTC GCCCGTCCCC  
AGAGGCACCC CGGCCAGGAC GGCAGGAGA GGAGACCCC GTTCTGTCAT GCNCTGTCCG CCCGCCACGG TGNCTCCCG  
AGGGTGAGGC AGGAGGGTGG GTGGAGGCG CACTGNTCCT CAGCTGGAAG GGCGGGGCAT

SEQ ID NO:1451: (Length of Sequence = 403 Nucleotides)

CCGCTGTCA CCTACGGCT GATTAACTT GCCTTCTGT CCTCCAAGAC CAGATGATGA TTATTCTCCA CCGTCTAAGA  
GACCAAAGGC CAATGAGCTA CCGCAGCCAC CAGTCCCGGA ACCCGCAAT GCTGGGAAGC GGAAAGTGAG GGAGTTCAAC  
TTGAGAAAT GGAATGCTCG CATCACTGAT CTACGTAAAC AAGTTGAAGA ATTGTTTGA AGGAAATATG CTCAGCCAT  
AAAAGCCAAA GGTCCGGTGA CGATCCCGTA CCTCTTTTC TAGTCTCATG TTGAAGATCT TTATGTAGAA GGACTTCTG  
AAGGAATTCC TTTTAGAAG CCATCTACTT ACGGAATTCC TCGNCTGGAG AGGATATTAC TTGCAAAGGG AAAGGATTCTG  
TTT

SEQ ID NO:1452: (Length of Sequence = 353 Nucleotides)

TGCCTAGAGA GGGGCGGGA TTTAGAGAGC TGTCTTCTG CCTATCTGAT CGCCTCTCA GACACTGATC TATTAGTCTA  
GTGCTGCAAT TACTTGGATT GTAATGTTT CTGCAATTT TTGCTTTTCA AATCTTTTC ACCCTAACT GTAAATACGC  
CAGGAGTAGG TAAAACTTA CAGGTAAACA TTGCCAAGAN ATAAGGATTT TNATGTCTT TGTCTAGTG CATAACTCAA  
ATCACATGAG ATAGATTTCT TTGCATCTGT CCATTGTATT TCTCTGAGGC TAATTTACAG CACTTTGTCA CGTTAGGNAT  
TTTTTTTCCC CAGTGTGCT ACTCTCCAAC TGG

SEQ ID NO:1453: (Length of Sequence = 258 Nucleotides)

GTGCCCCIN CTGTCTTCT GTNACCCAGA GAAAGCTTCA CAAGCATGCC TGNAAITNAG TTGCACCAIT TTATTACAGC  
TGAAAGANTT GANTGTAAAG AAGGAAGTTT AATAGANCAT ATAATNCAGC AGATTTATTG ATGGGGAGGT ATCTATTGTA  
GTTTGGCCAG TGAAGGCAGG TCATAGAGGA AAATTTAGGT AAGTCGGATT TNCITTAATA AGAGGCCCAA GAGTTAGTAC  
CTCAGGATTT TGTTTTCT

SEQ ID NO:1454: (Length of Sequence = 328 Nucleotides)

GAGATGGAGT CTGTCTCTG CGCCAGGCT GGGGTGCAGT GGCGCGATCT CTGCTCACTG CAAGCCCCGC CTCCCAGGTT  
CAGGCCATTC TCCTGCTCA GCCTCCCGAG TAGCTGGGAC TACAGGCGCC TGGCACCACG NCCAGCTAAT TTTTGTATT

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TTTGGTGGAG ACGGGGTTTC ACCGTGTAG CCAGGATGGT CTGATCTCC CGACCTCATG ACCTGCCCCG CTGGNCTCC  
CAAATTGCTG GGATTACAGG CGTACAACC GCGCCCGGCC GGTAGCAATA GTTTTAATTA AGGTCCTAAA ATCATACAAA  
AAGGAATT

SEQ ID NO:1455: (Length of Sequence = 342 Nucleotides)

AATTAGGTA GATTAGCATT CCCATGTAAC TTACAGAAT CAGAATGAGA ATTCAGAAGT CACCTGANIT GGCCGGGCAT  
GGTGGCTCAC ACCTGTAATC CCAGCACCTT GGGAGGCCAA GGCAGGCAGA TCATCTGAGG TCAGGAGTTC GAGACCAGCC  
TGGCCAACAT AGTGAAATCC CGCCCTACT AAAAATACAA AAAATTAGCC AGGCACCCTG TCCACAGCCC CCACACAGAC  
TCGAGGGGCC CCCATCTCCT GTCTGAACC CAACAGGGTG GTCCCACTNT GGGACCACAA ACCAGGTATG ACTGTTTINAG  
AAGCAGGCTC ACTACCAGG TA

SEQ ID NO:1456: (Length of Sequence = 296 Nucleotides)

ATCTTTGACC TATTAGGTGA ACAAATGAAC CTCACAGGAC ACACAGTATT TTTTAAAGGC AGACTCGCTC TCTTTTTTGC  
CAGTNAGCAG TTCTAGCTAA CCAAGTTACA CACTGTGGGT ATTCTGCCT GCCTCTGAA TACAAAGGCC TAGTTCAGT  
GTTGCTTTT TNATTCAAA TCAATTTTT CTCTTTCTT TTTGAGATA AACTATTAA AAGTACTACT ATATATATAA  
AANCTCAAAT CAACTTTTG GCCTCTCTT CTGTACCAG GGAGTATATT CTGACG

SEQ ID NO:1457: (Length of Sequence = 314 Nucleotides)

GAGGATTCAT AAGTAGAATT TATAAGAAC TCCAAAGAAT CAATAACAAA AAGACTGGCT ATGGCCTTCG NAGAGCAGCT  
GCTGTCTGG AAATCAGAGG ACAGTGAAGG GAAGTCCGAA GATGAGCCTG ACACCAITCC GACATCCGTC CTCCTGCAGG  
TGGTGGAGCT GCTAGGAAAC TTCTINTGA CCACGGACAT GGCAGCCTGC NTGAAGGAGC TTGTTTTCCA TCTCCTGGCA  
GAGCTCCTAC GCACGGTGCA CACCCTGGAG CAGAGGGGGC ACCCGCTGG CCTGINCTCC TCANTCGCCC TCCA

SEQ ID NO:1458: (Length of Sequence = 254 Nucleotides)

GTTCCAGTCA CAGATGTTT ATTATCACTA TTCAATATTA TTAAGCATCT AATAAGTATA AGGATGCATG AGTCAAGGT  
CCCTACCTTC AGGTCCGAAG CAGGAAAGAG ACCAGATCCT AGAACAATAG GACATGGTAC CCGCTGCCTA GACGGAATTT  
AGAATCCGGC TGGGTGAAG AGATTATGA GCGAGTCATG CCATCAATGT GCTGTAACCTG AGGTCTTAAA AACCACCCAG  
CCCGACACA AACT

SEQ ID NO:1459: (Length of Sequence = 343 Nucleotides)

AGAAAGGCTC AGGGATTAAG TAAAAAGGCT AGTACATCTG GGCTCCATTC CATTAITTAG TCATCCAAA GAAGTGAAGT  
GGAGGATAGT GAGCATCTAG TATATGCCAG GCACTAGACT GGCTGCAGAG GATTCAGAGA TACAAAAAC AACTTGTGA  
CCAATTTAAT TTGAATTTAC CAAGTTGAAT GGCAAAAATA TCTTAAAAAT TTAGATGCCT TGATAAATGT AGTGGTATAT  
TATGATAGCC ATTCTATGCC TTGAGATACC GTGTATCTA TATTGTATAG TTGAGGGATT GAGGCCAGTT GGGAGGAATA  
AATTATAGCT TGTGCTTATC AGG

SEQ ID NO:1460: (Length of Sequence = 348 Nucleotides)

ATTGTCAACA GGTTTTTTAT TTATACCTAC AAAAAGAAAA CAAGATGATG GTATCAAAAG GACAATTTAC AACTAAGAA  
TAGTAACATA GCTTTCAGCA TCCTGTGCCT GANCATCACA CATCTACAAG TCTTTCAAGT CTAAATGCAA CAGGAATGTN  
TCTGGAGACC NGCAAGAACA TCAATAGAGA GCACTGATCC CAAGCAAAAG CCACTAACCT TTAGATGAG AAGTCNCAC  
AACGNATGT TAGGGAGGAT TTGGGAGAAG CAGCCCTTT GCTTAATACA TINGGACCCC TTCCCTTAA GTTGAGGTTT  
AACCCTTGAA TGCAATAACT TGGCATAA

SEQ ID NO:1461: (Length of Sequence = 343 Nucleotides)

TGGGAAGATC AGGTCTTACT TGTTTTCTG TCCCTCCAG CGCTAGATCA ACACAGTGT AAATTAGTTG AATTTCAGTG  
GAGGAGATAA GACAGAAATG AAATCTGTGA AGATTGAGAC TTTCCTAAGT TAAAACCACT CTGAGTTTAC AGATCAAGAT  
GATGCCAGAA ATAACATCAC ACTGAAACAT CAGTCAAATG TAGTCATCAT GGCAAAGGCC AAATGTCCCT TTCTTTTTTT  
GCCTCCGCTT GCCTGGGAAT TTAGCATCCC CTAAAGCCAC TCATCTGGGA CAGGATTTTA GGGTGTGTAC ATGTTTTTCA  
ATCTCCACAG GACCCAGCTG TGT

SEQ ID NO:1462: (Length of Sequence = 335 Nucleotides)

GGCATGGAGC AGGCAATGAC TTGTTCATAG TCCTGTCAGT TATGAGCACC AGCTTGAACCT TAGGAACTCT TATAAATTC  
TGTTTTCAAC CAAGTATIGA GTGTCTGCTA TGTCGTCAGC ACTGCGCTAG GTGCTGAAAT CTCACTTCTA CTGAGGAAGA  
CAGGAACATA AATGGTGATG ATCATTGTCAT TAGAAGTGAT GCCACGGGAA TAGTGTGGGG CCTCTCCAGG GGGATCTNAA  
GGTAGGGAGA CCACACTTCT CCACTGGTGG AGAGGGCAGA CAGCGTGTAT NGGGTCTCA AGGTCTNATT GCAAAGGTCA  
TGTTTTAGCT GTTCA

SEQ ID NO:1463: (Length of Sequence = 382 Nucleotides)

GGACCGCTTT CGGTCTCTCA GGATAAACAC GAGCATGCCC ACCACGGTGA AGGCGGAGGT GACAAACACC AGCAGCAGTC  
CCGGGACCAA CACCGAGATG GACACCTGTC TGGTGTCTAG GTAGGAGTTG GAGTGCCTCC CGGTCTCCGC CAACCCAGTG  
CTGTTTTTAC TGTCGGAAGT TAACGTGGGC GAGATCCTAG CGTACAGCTG AGGGCAGATC TCGTCATTGG AGAGGAGCAT  
GAAATCCTTT CTAAAGAAGT TCACCGGCGT CTCACACTTN AGGTGCTCTA TCAGCACTTC GGAACCCAG CMTCTGNCC  
ACTTGCTTGA AAGGCACAAT TGTCAGGAG CACTNCCAGG GGTTCCGTG GAGGGTCTAT CT

SEQ ID NO:1464: (Length of Sequence = 187 Nucleotides)

AANGACCTCA TTTCAAAGAA GAGCCGTCTC CTGACAAGGG ACGTTTCCCA GAGAGGAGAC GTGTTAGTGC AACAAAGACC  
AGGCCCTGGN AGCCACGAAA GCCCTCCAGA TGCTTGAAGG ACGCCGTCTN TAGCCGNGTG GGCCACGNC GGGTGGGGAC  
AGACAATGAC AAGAGGCAAG ACAGCCG

SEQ ID NO:1465: (Length of Sequence = 276 Nucleotides)

TTTACACAAT CAGTATAATA CTGATAGGAA AACCTGACTG AGTTCAGAAA ANGAAAACGA AGTAGAGATC TCACTTGCAT  
CAGAACAAAA TGTCAATCTA TTAGCAGATA ATATTCTATCA GTATTTTTTG AAAATACAAT ACCACANGAA AGAAACAGTG  
GACATTTGGA GGGCTTTGAG GCCTGTGGTG GAAAAGGAAT TATCTNCCCG TAAANCTAG ATAGAAGCAT TCTCAGANAC  
TGTGTTGTA TGTCGTCCCT CTACTGACAG AGTTGA

SEQ ID NO:1466: (Length of Sequence = 375 Nucleotides)

GGGGTTTAC CATGTNCCC AGGCTGGGCT CAAGTGATCC ACCCTCCTTG GCTTCTCAA GTGCTGGGAC TACAGGTGTG  
AGCCACTGTG CCTGGCTGGT TTTTNTTTTT TNAATGAACA TGTTGCAAAT CACGCAGAGC ACCTNINATT CTGCATTNCC  
TGGGTTATAA CAAACATTGT CATCTCTGCC TACATTTAAA AGGCTCTGGT GTTATTTTAA TATGCTTTT CAATTTAGTA  
ATTAAATCTA ATTTTCTTT GAGCTGAGAT GTTATTCTT GTTCTCTAG AGTTGCTTTT ATTTGTTTAT ATATGTTTCC  
CTTAGCATGT TTTTCTGATC TCTTAGTTAT TAGATACCTG AACATTGAC ATTGG

SEQ ID NO:1467: (Length of Sequence = 319 Nucleotides)

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TGATAAAAGG AAAACGTTTT GATTATAGT ACCAAGTGCT TAAACACAAG GATAGTGITA GATTTTGGAG TGACTTTTCT  
 TTTTGCAATT TTTGGCAGTA AAAGCCAAAC GTTGTATTG TCCTTTTCAG AGTTGTCCAG CCTTTTTC CTTTGTCCAA  
 AATGATTCTA AATAGAATCT AATAAACCAA TGTAGCATTA TTTTTTCTA AATGAAGCCC CAAAAAGAA AAGTGCCTTG  
 CATCATTTAA AAAAAATAAT TAAATCCTCA TGGCCTCTAA ATTAGGTATG TAGGGCACTG AAAAGTCTT AACATTTTT

SEQ ID NO:1468: (Length of Sequence = 352 Nucleotides)

TTTGGTTAAC ATTCCAAACA TGTATAACCA ATTAACATGG CCTAGGGTTT TCTTTTATT GGTATTCAC TCACTAACTT  
 GAATCCACAG ATATAAGCAG TATATAACCA GAAAGTTACA AGTAAACACA AATTATACAT GCAAATTTCT GTTACAAAG  
 GTCACATGTG CAGGTACATG ANTTAGAAGC GTGCATCTAG GATTATGGCC AACTGTTTT AAAATGCAG AATGTAAAA  
 TTACATCTTG AAAATATGAA GAGATGGTCT ACACACTTCA AAAATCAAAT GTTGCTTATA CCAGAGATGT ATGTCAATCA  
 CGGNTTCAA GTGACAAGCA GTAAGGATCC TC

SEQ ID NO:1469: (Length of Sequence = 427 Nucleotides)

GAGATGGAGT CTGTCTCTGT NACCCAGGCT AGAGTGCACT GGCAGATCT CGGCTTACTG CAACCTCCGC CTCCTGGGTT  
 CAACTGATTC CCTGCTCA GCTCCCAAG TAGCTGGGAT TACAGGCGCC TGNACCGCA CCCAGCTAAT TTTTGTATTT  
 TNAGTAGAGA CGGGCTTTA TCATCTTGGC CAGGCTGGCC TCCAATCTCT GACCATGTGA TTCACCTGCC TCCACCTCCC  
 AAAGTGCTGG AATTACAGGT GTGAGTCACC ACACCGGCC GGATTTCTTT AGTTTTCTTT AATGCATATT GAGTTTCTTT  
 AGTTTTAACA ACCTTAT CTGTGTGGA CCCAACTAT TCACTATGTT TCTTGGGGA NAGCTTNGAA TCTTGGGGTG  
 GNAGCCAATT TGTAAATAGC CAGGGTG

SEQ ID NO:1470: (Length of Sequence = 426 Nucleotides)

AGGAGTTTGA GACCATCTG GGCACANAG GAAACCCCG TCTCTACAAA AAGAAAATTT GGTTTTATA TTTATTTGTA  
 TTAATTTTT TAGAAACATA GCTGGGCATG GTGGCACAG CCTGTAGTCC TAGCTACTCA GGGGGCTGAG GTGGGAGGAT  
 TGCTTGAGCC CAGGAAGTTG AGGCTGCATT AAGTGTGAT CACACCACTG TNCTGCAGCC TGGGTGACAG AGTGAGACCC  
 TGCGACTCCA GACAGGTGCA CACCACCACA CTCAGCTAAT TTTTGTAGA AATGAGGTCT CACTATGTTG CCCAGGTTGG  
 TCTTGAATC CGGGCTCAA GTGATCCACC TGCTCAGCC TCTCAAAGTG CTGGGATTAC AGGCATGAGT CACAGTGCCT  
 GGGCCCAAT TCATAGTCTT AAACAT

SEQ ID NO:1471: (Length of Sequence = 372 Nucleotides)

AGAATATTAA AAAAGACCAG ACGCTTAAAG CAAGANTTGA AATACCTAGT TGTAAGATG TGGCACCTGT GGAGAAGACT  
 ATTAAGTTGC TTCCAGTAG CCATGTTGCA AGACTACAAA TATTCAGTGT AGAAGGACAA AAGGCAATTC AGATCAAACA  
 TCAGGATGAG GTTAATTGGA TAGCGGTGA TATTATGCAT AANCTTATTT TTCAAATGTA TGATGAAGGA GAAAGAGAAA  
 TCAATATAAC ATCAGCTTTA GCAGAAAAA TTAAAGTTAA TTGGACTCCT NAGGTTAACA AAGAACACTT GCTACAGGGT  
 CTGCTTCTG ATGTGCAAGT ACCNACATCT GTAAAAGATA TNCCTATTT CC

SEQ ID NO:1472: (Length of Sequence = 332 Nucleotides)

GGTAGAGACA GGGTCTCACC CTGTTGCTCA GGCTGGTCTC AACTCTCTG GCTCAAGCNA TCCTTTCACC TTGGCCTTCC  
 AAAGTNTAG AACTGGCCAG GGGTGTGGC TCATGCTGT AATCCAGCA CTITNGGAGG CAGAGGCGGG CAGGGAGTTT  
 AAGACCAGCC TGCCCAACAC GGTGAACCCA CTCTCCACCA AANTACAAA ATTTAGCTGG ATGTGGTGGT GGGCGCTCT  
 AATCCAGCC ACTCAGGAGG CTGAGGCAGG AGANTCACT GANCCCGGA GCGGAGGTT GCAATGAGCA GAGACGCTT  
 GGACGACAGA GT

345

SEQ ID NO:1473: (Length of Sequence = 434 Nucleotides)

GCCTTTAATT TGGTTTINCT ATGCCAGTAC AGAAACATCT GGACAACACT CTTGAGCCTG CAGAGGCTCA CGGCCACACC  
 CACTTCTGCC GCAGGACTGT CTGTTGAGGA GCCGAACOGA TGAGGCACAG TAGCCAGGCC CTCCCGAGGG CTCCAGAAGC  
 TCTAGGTTTA CGGGTCACC TTCTGTAGG TGACGTGAAG ATGCTGAGTC ATTGGCTGTN TCGTGGTTGC CATGGAGACC  
 GTCTGCTCAA GTTGGCTTC AGAATTCAGC CTGAACITCC GGGTGATCTG CTCTACGTGG GGCTCCTTGG CGAAGGAGAT  
 CCTGGCGATG GAGTGGGATG CGATGCACAG NTCTGCCCC TTCAACTGCG CCTCTNCAC TTCCANCAC GGCTGTTTTT  
 TTGGCGTGAC AAAAGGCCAC CTTTTGGTG TCGG

SEQ ID NO:1474: (Length of Sequence = 402 Nucleotides)

GACGTINAGG TGGGAGGTC GTTTGAGCAA CATAGTGAGA CCCCGTCTCT ACACAAAAC AAAAAAATA AAAAATTATC  
 TGAGCATAGT GGAGCATGGC TATGTTCCAA GCTACGTGGG AGGCTGAGGT GGGAGGATTG CTTGCNTCCA GGAGTTCAAG  
 GCTGCAGTAA GCAGTAATGG TGCTACTTCG CTTCAGCCTG GCGACAGAG CAAGACCCTG TCTCGAAAAA ATAAATAAAG  
 TAAATAAAGT TGAGAAITTT GTATTTTGGT ACAGAAGTC TATGCCCTTN AAATGCTCCA TTTGGACAGC CTTAGGGCAG  
 GACGCTCTGA AACTGGGAAG CCTGGGGCCC TGTACANTCT TGGCTGTCCC CTGTACANTC TCCTAACTCT AGAGGGCTGG  
 TT

SEQ ID NO:1475: (Length of Sequence = 324 Nucleotides)

TTGCATACCT GTGCTGTGTC AGACCAGGCA GAGTCATCTC ATTCCACTGG TCTAATGGAT GGCAATTGAA TTAAATTAAAC  
 AAAACTCCTT TGACTTAGTT TCATACTGTG CTGAATGTAA TGGAACTCTC TCTGCCCCC TTATCTCTCT CTCTTCACT  
 CTCTCTCAAC TAAAAATGT CTTTAACTAA CATCCACTTT AAGAATATTA AAGGCTATAC ATTATACTTA AAAGATACAA  
 TACAGTCATC CCCCTTTCCA TGACTTAAAT TGTATAACAT AAAATAATTA AAAAGNTACT TTGGATAGTG ATACACAGTA  
 TAGG

SEQ ID NO:1476: (Length of Sequence = 244 Nucleotides)

GAAAAACCAG AAACCTCAAA TCAGAGTGCC TCTCTCTC CAAAGGAACA CAGCTCTCA CCAGCAACGG NACAAAGCTG  
 GACAGAGAAT GACTTTGACA AATTGAGAGA GGAAGGCTTC AGAAGATCAA ACTACTCTGA GCTAAAGGAG GAAGTTGGA  
 CCNATGGCAA AGAAGTTAAA AACTTTGAAA AAAAATNGA CGGATNGATA ACTAGNATAA CCGATGCAGA GAAGTCCTTA  
 AAGG

SEQ ID NO:1477: (Length of Sequence = 338 Nucleotides)

ACAACACATA CTTGAACTG ATTATGACTG TTTTGAATG CATTTTGATT CCTTAGCTAT GCCTCTCAGG TGAAAGGACC  
 AATGGCAAGA GGAAGCAGAG GATTATGCA CTAGAAAATA CTGAGAGAGA TCAGAGTATT CTGTCTACTT CACTGAAGAT  
 ATGGTCTATT GAGGGAAAAC TAATTAACAG TTGATCCAAG GAACAAAAGA ATGCTGTTAT GTGACATTTT GTTGGGAAAC  
 TGACTGTAAT AATAATAAAN CAAATGTCCA GAGGAATGTG TCACATAATT NCAGTGTTTA TGGTTGATAA TTCAAAGGCA  
 TAGATGAATT GGGATTC

SEQ ID NO:1478: (Length of Sequence = 397 Nucleotides)

ACCCCTTCCC ATTCTGATAA TCTGGCCATG ACTAGCAGAA GCACAGCTAG GCCCAATGGG CAACCCAGG CCAGCAAAAT  
 TTGCCAGTTC AAATTGGTCC TGCTGGGAGA ATCTGCAGTG GGAAAGTCAA GCCTGGTATT ACGTTTTGTC AAAGGGCAGT  
 TCCATGAGTA CCAGGAGAGC ACCATTGGAG CGGCCTTCTT CACCCAGTCC GTTTGINTAG ATGACACAAC AGTGAAGTTT  
 GAGATCTGGG ACACAGCTGG GCAGGAGCGA TATCACAGCT TAGCCCCCAT GGTACTACAG GGGTGCCCAA GCTNCAATCG

TGGGTTTACG ACATTACTAA TCAGGGAAAC CTTTGGCCG AGCAAAGACA TGGGGTGAAG GGACTACAGC GACAGGC

SEQ ID NO:1479: (Length of Sequence = 389 Nucleotides)

GCTAGAGNGC CGGCTTGCGG GGTGAGTGG CCCGAGCTAA GGGTGCGGAG ACCCAAGGGC GGCGACTACG ACGGCGTTGA  
TATCGGTGGT AACGACGGCC TCAGCAGGCG GGAAGATGA AAGGCCGNT CGAGCTGGGA GATGTGACAC CACACAATAT  
TAANCAGTTG AAAAGATTGA NTCAGGTCAT CTTCCAGTC AGCTACAATG ACAAGTCTA CAAGGATGTA CTGGAGGTTG  
GCGAGCTAGC AAAACTTGCC TATTTCAATG ATATTNCTGT AGGTGCAGTA TGCTGTAGG TGGATCATT ACAGAATCAG  
AAGAGACTTT ACATCATGGA CACTAGGGAT GTNTGGGCAC CTTACCGAAG CTAGGAATAG GGACTAAAT

SEQ ID NO:1480: (Length of Sequence = 384 Nucleotides)

CTGAGAGCCA GGAGCTCTTG CGGAGAAGCC ACTGTCTGCA CGCCACCTGC TTCGATGACC CTGCTCTGCC ATCCCTGTGC  
TCCAAGGGCC GGGCCCTGCC GTTCCTGTG CCAGACGGGT CTCAGGAGA TGCCGCCAG CAGGTATGCA TGGCGAGGCC  
TGGGCATCAA GGCCCGGATT CTATGGCTGC CAGTTTCATT CTCTGTGT TGTCCCCCT AGCAAGACTT ATGAGGTTCC  
TTGAGGACAA GACTCCCTCC TGCCACCTGG TCTGTTTCTT GAACATTCAC TGCACTAGCA CGNCCCGGG ACGCAGNCTT  
TGGGAATCAG GCCGTCGGC ATGGTAGAGC GGCTNGCACT GCTCGGCACC GTGACGGACG TTTG

SEQ ID NO:1481: (Length of Sequence = 257 Nucleotides)

ATGCTAGAG CTATCTGT TTCCAAGCC ATTGGCTAG TAGGCCCTAA TTGGTCAGTG GGTCTGACC CCCAATCCC  
TACCTCAGCA GCAGGAAAG GAAGTCTGG TCTCCACCTG TNCCTACTAA GGCCCGTGG TATCTGGCA GAAGCCTCTG  
CATGTATCTN CGCTCTGAG ATGGGGTTT NAAAAAATA TAAGACCTA CGTCTACTA CCTGAGCTT GGCTCTAAAA  
CCACGGGAAA GGAAGAG

SEQ ID NO:1482: (Length of Sequence = 345 Nucleotides)

AATTGAGCTC AGACTAAAG AATTCTTTT TGAATAATA GTGATTAAGT TATGATATTC CTGTTGGCCT AAGAACAATG  
CCTATGATTT AGTTGTGTTA TGTATATTG TACTATTAAC CAAACAATCG ATTGGGTACA AGTAGCCTTA GGGCAATACT  
TCCTTAAAAA CATGTTCTG ATAACTAAA GCCTTAGCAT TAACCAGAAG TCATAATTA ATAGTATTGT AAAAATACCT  
CATTATTTT AAATCCTGTG TTGGGGTAGA GGATTACAGT TGTCATTCA AATACATGAA TCTCTGTCA AAAGNGGTAC  
TTTGACAGTT TCATGGGAGG TCAGG

SEQ ID NO:1483: (Length of Sequence = 344 Nucleotides)

CTGATGTACT GTTTTAATAT GCTGAGTACT GTTGATTCAA CAACAACTT TAATGGGTGA TGAGCTTTTG CATACCAATA  
TGAATTNTC AGCACTTCTG AAAACTGGCC ATCATTTTNC AAATTCACAA TTTGCTGGAT GTCAGGGAAC AATAGGAAGA  
AGAATGAGCG TCAATTTTCA TGTCTTCTT TGCTTCTTCA CTGGCCCTCC ATAGAAGTAG TCAGAAAAA ACAAGCACC  
ATCAACCACA CTTACAAAC AATTCATGTT GGCCTAAGCT TTGCTCAACA TTCATATGAC AGAAGGTAGN ATAATGAAAA  
GGGACTGCTG GGCATCACTT TCCC

SEQ ID NO:1484: (Length of Sequence = 380 Nucleotides)

TTCTTAAAAG CAGTCTTTCC TACAACTTGT ATGCAGTAAG TCACTTAAGC ACTTAAGTGT CATATGGGTA CTTACATGGA  
ATTAGAGCAC TTCCTGAATG GAATTAGAAA AAGGCAATT GTGCATACTA CTGATGCATT CATTTCTAC AGAGATATGA  
TACCAAGGGC CAATAAGTGA ATAGAAAAAG GGAGGAGGAT TTATTAATGG AATGAGTTCT AACCTGTCT CTTACCAGCC  
ATATGACTTT GGNTAAATA ATCAAACGCC CAATGAGCTC AACTGTCTAT TATTAGGGA ATTTAAATGA GAGAATGCAC  
ATTAATTATG CATTGCAGAG TACATGGGAA AATAGTAAAA GCTTAATATT TAATACGGTC

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SEQ ID NO:1485: (Length of Sequence = 334 Nucleotides)

GAAGGAGCGG GGAACCAATT TCTCACTCTC CTCCCACTTG CTATGTGTCAG AAGAGCGAGA TTTCAGGGCA GCAGAGAGCA  
TCAGGAGATC AAAAGAAGAC ACTGCTGGGT GGTCCCTTAG CAAGTITTAG CTCTTTTNC TGTGGGAGA GTATTCTTGT  
GGCACAGTGC CAAGTGTCTC TAAGAACTA GTCATGCCCTG ANCTTAAGGG CTGCGGGATT CTGGGTGGTG GATTTCCTTA  
GGCTTGTCTG AGCCTGCCAG TGCTCTCCTC TGTCGCTCTG ATTTCCATT CACGTGAGCA GTCTGCACTN CCTTGGACAG  
ACCCACTGGC ATTT

SEQ ID NO:1486: (Length of Sequence = 164 Nucleotides)

CTGAAACGGA AAGATGGCGC TGCTGTNCTT CTAAGCCTAG GCTTCTTGCA CTAAAGCACC AAGGGCATCG CACACAGGCT  
TGGCAGAGGG GCCATGGCCA GANTCACCAC CTTGAGACAA GTATGTTGGA GGTCTCGAAT CCTTGGCAC CCCCAAGCAT  
GCAG

SEQ ID NO:1487: (Length of Sequence = 298 Nucleotides)

TTGAACCCAG GGGGCAGAGA TTGCAGTGAG CCGAGATCGT NCTGCTGTAC TCCAGCCTGG GCAACAGAGC GAGACTCCAT  
TTCAAAAACG AGAACCCAGA GGGCTCACTT GCCCCCTCCA CCACACAGTG AGAAGGCACC ATCTATGAGC CAGGAAGCGG  
GCCCTCACCT AACAGGATCT NCTGGGCCTT GACCCAGGNC TTTACAACCT CTAGANCCAT GAAAAATTTC TGTGTTCCT  
AGCAGNCCAA ACAGAATTAG AACCATTAAT TTCTATTTCT CCTTAGCTT AACACTGG

SEQ ID NO:1488: (Length of Sequence = 343 Nucleotides)

TTGCTAGTTC AGGNTCAATG TCATGGCTGT AACTAATATA GTACATTCCG CAGITGCAAC GCGAAATGAT CCGCTGGACT  
TGCTGGGCTT GCTGTGCTC ANCTGGCTGG TTCCAATCTG TGGTGTGGT AACCATGCCG CCCACTGCCT GCCCACTCTC  
CATCAGCTCC TGCACAGAGT CCAGACTACG CTGCCGGTGC TCGCTCTTTT GCCCAGGTG AAGTGCAGTG GCGCAATCTC  
AGCTCACTGC AACCTCCGCC TNCGGGTTT AAGCAATTNT CCCCACCTCA GCCTTNCAG TAGCTGGGAT GACAGGGCGC  
CGCCACAACG GCCCACTAAT TTT

SEQ ID NO:1489: (Length of Sequence = 412 Nucleotides)

ATTACCTTTT TATAACCCAA GANTGCCATT ATTACACCCG GAACCTCAC CAAATAAGTA GGAAACTAC ACTGAGAACA  
ATTCCGCCCA GCTGTCTCTG GOCATTTCC CTCTCTACCG CCTCTGTGC ATTCCAGCAA TCTAACTCGA TGAATGATCT  
TCCAGTTGGA AAGATGGGGA CTTCACAATG TGCAGACCCA AAGATCTGTC TTCCAAAGGC CAATCACCAC TGTATCCTTC  
GTTCCCTTAA ATGTCGTGT TTATTGAAT ATATTAAGGA ATAATATCAA GGGTAATTAT CTATGTATAA AATGTATGNT  
TAATTTTTTA GGGGACCATC ATACTGTTTT TCCACAGTGG CTGTACATTT TACAATTCCC ACCAACAATG CACAGGGTTC  
CATGGTTCCT AT

SEQ ID NO:1490: (Length of Sequence = 356 Nucleotides)

ATACCTTCTT TCATTTAAGC CACCCAGTCT ATGGTACTTC GTTATGGCAG CCTTAGCAAA CTAATACGGA TTCCTCATCA  
GGTTCAGATT TTNCTAAATA AAATGTGTTT GTGAGGGTGG TACAAGCAAC AGTGATATAT TTCTTTAAGT ATTTTCCCC  
AGCCAAATTC CAACAAGACA ATAATGTCTA ATGCACTGTC TGGTGAATCG GAAATCTCC TGAATGAAAT AAGAGCCTCT  
AATACCCAAA AGGGAATGAA GTGAGTCATC ACCACAGCCT GTGAATGAAA ATAAGTCTC TGAGGAAAAC ACATGTAAAA  
AATGACACCA TGTGGATTAA ATGGGGGNAC ACAAGT

SEQ ID NO:1491: (Length of Sequence = 335 Nucleotides)

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TTCACCTACCA AAACCAGTTA CAACAGTTCC AGCCAAATAA CACAGGCTAC CCCATATGCC ACGACACAGA TCTTGCAATTC  
 CAACAGCATA CATGANITGG CTGTGGTCT CTCTGATCCN CAATGGAAAA GCTCAATTCA GCAAAAAACA GATCTGNTGG  
 GATTITGGTTA TTCTCTACCT GATCAGAACA AAGGTAACAN TGCCITACTT TACATTCTCG ACTACCGNIT GGCTGAGGGA  
 TTGINTAATA GAATGCCACA NAACCAGTCT NAGGATTTTA GCANCCACCA GCTCTNACAA CAGCTCAGGA AGGAGTTGGC  
 AGINTCTCAG GTGGG

SEQ ID NO:1492: (Length of Sequence = 321 Nucleotides)

GACTTCATAA AACATCCITT ACTATATTTT NAAAGAAAGC AGAAGTAACA GCAATATATG TAAAAGTAAT GNITTAATGN  
 CTATAAGCAA GNCAAAGCAA TAGAATTGTG CTTCTTTTGC AGACTGGGN CAATGAAATG TTTAGCTACA ATTINCCAT  
 ACAAACATGA AACAATATTC ATATAGNNTA ANCACCTCA CAAATAACTG ATGGGTGATG ANCACACACC AAGTTCGACC  
 AAAGCAAAAA NTAAACTGAA AATTGTTGGG TGGGGTATT CATATTTTAA ATTCAACATG CTGCTCTAT TTAAAAATAC  
 C

SEQ ID NO:1493: (Length of Sequence = 315 Nucleotides)

GACGGAGCGA GGGGACAGAG CCCAGGGATG GAGGCGGGAT GCGGGGACAA GAGCCAGGG ATGGAGGCGG GATGCGGGG  
 AGCAGCTGGT AATGTGCAGA GACTGGGAGA GGGCGGTGTC CAGGTGGAGA GTATTTCAAG GAAGAGAAGG ATTAACAGCG  
 TCCACTGCCG CAGATGGGCC AANCAGAGAT GGGACTGGAA ACCAACCCT GCAITTAGCA TCCTGGGGNC TGCTNATAAC  
 CTGGTTTGA TGGCTCCTCA AGAAGAGCCA NAACCCITNA AAGTTAGTTC AAGAGAGAAG GGGNGAAGAG ACACT

SEQ ID NO:1494: (Length of Sequence = 405 Nucleotides)

AAAAGTTGAC AAAACATAAA GTATCTCTAG ACAGCAAGGA AATAATTTCA CGAGATTGCT AAATTGATGT CAACACCTGC  
 AGTCTAAAAT TTATACAGTT CAATATGTGT CATTTGATCA CTGGCATGTC AAATATAGAA CAGCTATGAC TTGCTGGCC  
 AGTAAATTAT CTAGCAGTGA AAATCACTTT TTAGGAGAGT CGCAATCAAA CATGTTTTAA CGTGGGAGCC TATAAGATG  
 CAAATCTCTG AACACAGTG TCTAAGAAAA GTACATTGGG TCACTCTGAA CAGGTGGTAT GAACATTTGA TTAACTGCA  
 AGATCTNCNG CTNITTACGG GCTTTGTAC CATCGNATGA ATCTTACATC CGCTGATGAC TNAGAGCAAG CAGGGGCGAG  
 CTGCC

SEQ ID NO:1495: (Length of Sequence = 364 Nucleotides)

CGTCTAATGA AGAGCTTCGA AACTTGCTTT TGCTGGGCA TGTGGGATTT GACAGCCTCC CTGACCAGCT GTCAACAAG  
 TCTACTTCTC AAGGATTCG TTCAACATC CTTTGTTGTG GTGAGACAGG CATTGGCAAA TCCACGTTAA TGGACATTT  
 GTTCAACACC AAATTTGAAA GTGACCCAGC TACTCACAAT GAACCAGGTG TTGGTTTAAA AGCCAGAAGT TATGAGCTTC  
 AGGAAAGCAA TGTACGGCTG AAGTTAACCA TTGTTGACAC CGTGGGATTT GGAGACCAGN TAAATAAAGA TGACAGCTAT  
 AAGCCGNTAG TAGNTATAT TGATGCCAG TTGAGGNT ACCT

SEQ ID NO:1496: (Length of Sequence = 370 Nucleotides)

GTCTCTTGA GCAAGGACCC AGTTATTCAT CTTAATTTCT AGGGGAATCT CTGTAGAGAT GAAAAGCAGG AGAACCAAGG  
 CAGCCTGGTC TCCTTGGGTG ATGAAAAACA GACTAAGAGC AGGGACTTGC CTCCAGCTGA GGAGCTTCCA GAAAAGGAGC  
 ATGGAAGAT ATCGTGCCAC CTGAGAGAAG ACATTGCCA GATTCTTACA TGTCAGAAAG CTGGTGAACA GGAGGGCAGG  
 CTACAAAGAA AGCAGAAAAA TNCACAGGA GGGAGGGGC ACATCTNCCA TGAATNTGGA AAGAGTTTTN CTCAAAGCTC  
 AGGCCTTAGT AAACACAGGA GNATNCACAC TGGTGAGAAA CCTACGGAT

SEQ ID NO:1497: (Length of Sequence = 376 Nucleotides)

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CACACACATA CAAAATCTGT CCATTGCGG GAGNAATNIG TATGTATGIN AGTTGGAGGG TATTAAAAAT CAGTTTTATT  
 CCAAAGATTT AAAACTAGAC ATGACTTAAA AACAAATTCT GGAGCACTGC TTGCTGACAA TCTCGTAGTT CTCGCTGCA  
 TTGAGTGCA TTTTGTGGCC AGTCCATCAG GCGGTACCAT GGGATTATAT TTGAATGTGT GGTGCATCCT TCGTGGATGA  
 AGGATGTGTG AGGGACCTTG AACCTCAGCT GTATTAACT GTAGCGCTC CAGTCAGTGC ACTAGATGAA ACTTTTAGAC  
 ANCTGAATT CTGTTGGGTC CMTCTTTTT CCTTTATGTA GGCAGNCINC AGCATG

SEQ ID NO:1498: (Length of Sequence = 281 Nucleotides)

TTTATAGGAC TTCTAATCTA ATTTNCCTAT AGTGTGACTA AAAGGGAGGC AAATTATTGG AACGGATTAT TCAAATGGNT  
 CCTTAATAT TGCTATGTAT AATAAGCCAG TTATTATATC AGGACCATGT TCTCTGTAGG CCAGTGTTT NCTCTCAT  
 TCTCCAGTGG CGGCGCGGG GAAGCGGGAG GCAGAGGCAG CAGCAGCCG CTTGGCTGCA AATGAATGAN CCCCCAGCTT  
 GGGGGGAGGA CTCCAGGTGA GCCTCTGCCC TCGGGAGGCC C

SEQ ID NO:1499: (Length of Sequence = 395 Nucleotides)

TTTATCACA CCTGTGTTT CAAGGGTCCT GTTACGTACC ATTACCAATT CTGCTTAGCA ATGGCTGTG AGATGGCATT  
 TATTCCTTCA GCATGTATTT TNATGTTTAC CTTCCTCTCA CCTAAATTC TCCCCACCC CAATAACAAT TAGTGTCTT  
 ATTTGCATGT AGCCAGAGCA AAAAATGATT TCTTTCCCTT AAGTTACTAT TATTATAAAA GGGACGATAA ACACATGAGT  
 CATTATACCA CAAGTATAGT GTGGAAAGGA CTCTAAACAT AGGCTCACTG AAGAAGGTGG CATTTGGGCC AGGGCTCAAA  
 ATAAGGCAGA TTCAGATTTG AACTGAATAG ATGGAGGAGT CATTTCAAAC AGAAGGAATG NCATAACATG TGGAG

SEQ ID NO:1500: (Length of Sequence = 272 Nucleotides)

CTGAGTAAGN GTTCCAGTC GGTCCACTG GTCACAAATT TTMGGCACC GATCATTGAC ATTCACAGCG TGTGATAGT  
 CCAGTTCAAT GAGCTCTGC GCGATGGCTG CGATCTGCTC CACGCGGTCC TGGTGCCTG CCAGGTGCT CTGAAACGNC  
 TGTGCTTCC GCAGCAGAGC CGNACCTCT NINAGGAGC CCGACTGTG ATCCTTNTGC AGCAAGATCT GCTCTTTGCC  
 ATAAGCCCAA GTCTGCTGG TTGAGGCCTT CT

SEQ ID NO:1501: (Length of Sequence = 394 Nucleotides)

TTTTTTTTCC TGGACCTGTC ACAAGCTTTA TTGTCCGAG CACAGACTCG CCACACTTCA ACAATTCAC TGTGGGGAGG  
 GGAGGGGTGA ATGAAGGACC TGGGGAGGGG ACATGGCTGA GCCACANCG GCGGCCACA CGGGGCGGC TGAGAGGCC  
 ACGGAGGCAG AAGCTCCAA GGAAACCGCT TCTTGGACAC CCGTCACCAG GAGCCACCT CCGGGGGCTC AGNTCCTCCC  
 GGCACCTCC TAGATGGACC TCTGGCTGTT AGTAGACTAA TCGGTGCCC TACCGATGGG GCAGAGCTGC CTGATTTTIG  
 CTAGAAAGAG CTGTATTTGA NCCTNGGTTA GGNCACTAAA GCATCGTTCT AGACGGCTGT TAATAGAACT NCAT

SEQ ID NO:1502: (Length of Sequence = 373 Nucleotides)

GAAACAAGGC ATAATGTGT CACAGAATCA GAGATCCAGT CTCACTTTTC CACAAATCTC CAAATCTCCA GTCTTATCTT  
 GTGTGCTCTA ATGGTTTGGT TCAATCCCTT TCCAACCTTT GTTTTCAAAG CATGGGGCCT GAGTGTCTC CACTCTCTCT  
 AAGAAAGGAG CTTGGGTGGA AGGGACCATG CTGACCTCT CCATCAGAGG GCTCTTCCAG TAGTATTCTC GGATGCAACC  
 TCCATTTCTC AGTTACCATT ATTTCTGTG TCAGCTTTGT CCTTCTGNN GGGATGCACA GTGATCCGGG CCACCACGT  
 TGTGTCTG TGCTCTGCT CTTTCTATG GTTTCAGNT ATTTCTGGG GTT

SEQ ID NO:1503: (Length of Sequence = 266 Nucleotides)

GNCAACAGGC CAGTNTTAA AGAGGGTCAA GTGGAGGTGC ATATTCCAGA GAATGCTCCC GTAGGTACCT CTGTAATTCA  
 GCTCCATGCC ACTGATCGAG ATATAGGCAG TAATGCTGAA ATCCGGTACA TTTTGGTGC CCAGGTGCGC CCGCAACCA

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AAAGACTCTT TGCTTTAAAT AATACTACTG GGCTGATTAC ANITCAGAGG TCCTNNGATA GAGAGGAGAC AGCCATTAC  
AAAGTGNCAG TGCTGGCTAG TGACGG

SEQ ID NO:1504: (Length of Sequence = 311 Nucleotides)

ACTGGATGGA TGTTTGATCT GGTGTGGTCA TGAAGTTGTT TTTTTTTTTT TTAAAAAGAA AACCATGATC AACAAGCTTT  
GCCACGAATT TAAGAGTTTT ATCAAGATAT ATCGAATACA GCATGGGATT GGGAAAGTTA ACTAAAGGTA TTTGAGCTTG  
CACTGGATCT TGAAAGGTAG AAAAAGGGAG CAGGAGGAAA CTCATCCAGG TAAGAAAAAT AGACTGTNCA AGATGGGCAT  
GAGAAACAGT GAGGTCCCNV GCTGGAGGTG GGTGCTAGTC ATGTTGAGCA CTNCTGGCAG GAGAGTTTT T

SEQ ID NO:1505: (Length of Sequence = 363 Nucleotides)

CCACTCATGG CAGAAGGGAA GGGAGCTAG TGTGTGCAGA AATTGTATGG TGAGAGAGAA GAAACAAGAG AGAGGGAAGG  
GAGATAGCAG GCTCTTTTCA ACAACCAGCT CTCATGGGAA ATCATAGAGT GAGAACTCAT TCACTACCAT GAGAATGGCA  
CTAGGCCATT AATGAGGGAT TCGCCCTAT GACCCAAATA CCTCCCATTA AGCTCTACCT CCAACACTGG AGATCACACA  
TCANCATAAA ATTTGGAGGG GTCGAATATC CAAACNTAG CAACTTGGAA CCACCAGAAG CTGGAAGAGG CAAGGAAAGA  
TTTTNTCCTA GAGGCTTCAG AATAAGGTAT TGCAATCTG AAA

SEQ ID NO:1506: (Length of Sequence = 177 Nucleotides)

CGGACAGAGC AGGGCAGAAA AATGAGGGAA GGATGACAGA AGCTCATCAG AAAGCCAGTA ATACATAAGA TTAGTTTTNT  
CAGCAAAACC TNGTAACTT TGACGTAAA AGACAAATAT TTTGATCTCT CATTCCTACT CTCAAAAGG TTTCTAGTTC  
ATATTGTTTT GCTAAAA

SEQ ID NO:1507: (Length of Sequence = 345 Nucleotides)

CTTGCTTGAT TTTCCCTGT GTGTGAGAGA ATGTGCACAT TGAAGAGAG GGAGCTCTCC ATCACCAGA GAGCCCAAAA  
ATAGCCCAAC TGATCATAGC CGTTGTAAAA ATATTGATGG ATGTAAGGAA AGATCCTTTC CAGTCTGAT GCTCCTTGAC  
TTGTGATTG CTAAATTGA GAAGCCATCA CTTACACAAC CTGTTTTATA GACAAATCCT TCCAGTTTCA GAAGAAAAAA  
TGTCATCTAT CTCACCTCC ATCTCTTTTT CAAACTTCGA TAGATGAGAA GAAAATGGTG AAATAAATTT TTTAGAATCA  
GTTTTGCAAG ATTGGTTTC AAGGA

SEQ ID NO:1508: (Length of Sequence = 326 Nucleotides)

AGTTGGATTT CAGCTACTCA GAGTAATTGG AAAAGGCCAC AGCCTGGTGG GCTTCACAGC TTTCAGAGAC CTGGTAGGGG  
ATGGCTAACA GGTCINCTG CCAGGAGACA AGTGGCAGAC CCAGGTGTGA AACTTTTACA GTCCCAACA AGCCTTCTT  
ATGGAGCACA GAGCATAAGG ACAACTTCTG CAGAAATGGA ATGGGGTACT TGGAAACAAA AATACATACA CCTCCTTCC  
CACCTGCCTC CAGCTTAGTA GCCCATAGTC CTCCTTGTCC CTCACACTGA GCCAGGGCCT GNCITAGATG ATGAAATGCA  
TGGCCT

SEQ ID NO:1509: (Length of Sequence = 329 Nucleotides)

AGTATGGGTC CCTTGGTACT ACTCAAGTT TACAATATTG CATTAAACAC ATTGAAAAAT ACACGAGAAC CTGAGGGAT  
CACATTTTAC TGCAATATGT GATTTCTGG TGAGACTCCT TGTGCAGAGA TGATTAGCTC ACAGAGCGTT GTAAGCACGT  
ACTCGAACA CCTGAGCATG CCGCAATGGC AACAGGAGGT ATCTTCACAA TTATGATGGT AGTACAGTAT GTACTGCACT  
TGTTTACACA GTTATGATTT AGTACTACAT CTTACANIT GNTATTTNC TTNCIATTTT GAATGGTATG TACTGTCTGT  
GTGTACATA

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SEQ ID NO:1510: (Length of Sequence = 247 Nucleotides)

TAGGAAAGAG TAAGANCTTC TTINCAGGCT GGAGGTGCTC GTATGGTGGG ACAGGAAAGG GGAAAAGAGA AAGGGGCAAC  
ATGGCAGACA TACCACGGIT CCTACAGAGA TTAGGGGCAG CCCTGGCCCG GGAAGTACAC AGGCGAGAGA GCTGACTCTC  
AGGCCAGGAA GGAGTTTAGC TCTNACCCAT CCTCANGGAC CACGGCTCTC CCCCAGCCTC AGCTGACACA CACACAAAGG  
AGCGTTT

SEQ ID NO:1511: (Length of Sequence = 369 Nucleotides)

CCACTTGCTC CTTFATTAAC TGTNCTTCCT GTAGTGTGTA TTTGGGATCC ACTGGGAATC ATAGAAAGGA ATCAGTGCTA  
GNTCTGTG GGATTCACCC CTGAGGGATG TGGCTTTGGC TTCTCTATCA ACCTTTCTGT TCCTTGTGC TATAGGAGTT  
AAGTCCCTTT NATGCCCCCT ACAGTGGATT ATAGCTATGG CCTGTGGCAG GTGTATTGTT TACAATAGCT GAAGAATTTC  
AGGCCCATGC TTTATGGGGG AGGGTTTINC TAGCTAGTAG TCCCCTTTCT TTCTAGATTG CAGCATAAGC GTGAACCNCC  
AAGGAATGCC ATATTTTAGA ATCCTGINAT AGGATGGTTA AGGCTTTTT

SEQ ID NO:1512: (Length of Sequence = 236 Nucleotides)

ATGCATTAG AAAAGACAGC CAAATGACAG ACTGATAAAA TATTTTCATT ACAAATTTGG TTGAGAACTA CGTGTGAGC  
TAAATGAAGT TTCTATTACA CATGTACTAA CAGAGACTTT TCATTACATA TTCTAGGATA TATTTAAAT ATATGTATAT  
TTTGATATTA AGGAATATA TTTGTGTGTC ATTTTACAAT GTGTAACAC ATATATATTA NGGCCCTTCC AATAAA

SEQ ID NO:1513: (Length of Sequence = 408 Nucleotides)

CATTAAATTT CTCAGTGTG GAAATATTT NATATTGCCA AGACCATAAT GTGAGGNGTG CAGCTGCATA ANTCCCTGAG  
AGAAGATTAG TGGGGCTAGC ACCTTACAAG GAAAGACAAG CTTGTGGCT GGGOCCAAG ACAGTCAAT GTCTGCCTGA  
CAATCTCCAC ACAGAAGGT TGCTCAGATC ACTTAGGACA CCCAGAAAGA GCTCACAAG GGCAACAAC CTAAGGCTGN  
TATTTCCAT CTAGCGGTAC TTACCTGGGA ACTGAGTGGC AGTGGACAGG AAGCAGGGCC TGGGCTAGGG AGACCCTCAG  
GAGGAANGG GACCCAAGAA GTAGAAGTC CATTCATTCA TATCTCATT CATTCAGCAA ACATGCGCTT GACACCTTCT  
GTTATGCT

SEQ ID NO:1514: (Length of Sequence = 359 Nucleotides)

TTNCCAGGC TGGTCTCAA CTCTGGGCT CAAGINATCC GTCCACCTTG GCTTCCCAA GTNCTAGGAT TACAGGCATG  
AGCCACTGIN CCTGGCTAGA AAATNINTTT TAAAAGTNA GGATGTAGAA TTNCTAGCT ATGTAGGCAA GGCAGGAGGA  
GAGGGGCCA GTTGGGAAGC ATAGCCACA AGAGTATGAG GGCCTGANCC AGGATGGTGG CAACAGGGAT GGAGAGGAAG  
GCGTGCCAGG GCATGGTGGC TCACACCTTA TAATCCTAGC ACTTTGAGAG GCTGAGGGAG GAGGATCATT TTNAGCCCAA  
AAGTTAGAGA CCAGCCTGGG GNAACATAGT TAAGGACAC

SEQ ID NO:1515: (Length of Sequence = 343 Nucleotides)

GAGCCCTTG ATGGCAAGAN CTGACCCTTC CATCTGGAG AAGAGGAGAC CAATTINATA TTATGGAGGC AGAATATACA  
GGACTGTGTG ACTAATTCGA CATGTGTGTC CATGGAGCTT GAAGGGGACA GAACCACAGG TGCAAAACTG GTGTAGGTAG  
TGCTGCCCAT TGCTCAGAAC TTTGTGTGAG TTGAGCCAG GCCTCTGGTT GCAGGACTCG TGAATGGAGC AGTTCTGAGA  
ACCACCTTT TGCTAAGGGA GCTINGGAGC CACATGGCTG CTCCCTTCAC ACTGGGTAA AGTGTAGTAT CCTGTGAGAG  
AATAAACGTA TTCATTTAA AAG

SEQ ID NO:1516: (Length of Sequence = 380 Nucleotides)

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TTTTCCTTA TTCTATCGA TTTTTCCTT AAGCTTCTAC CTGGNATTIN CCTTTGGAAA AGTCTCTGAG GTTCCACCAA  
 AATATGGAAC TTNATTTTGG ACACTTTGAC GAAAGAGATA AGACATCCAG GAACATGCGA GGCTCCCGGA TGAATGGNTT  
 GCCTAGCCCC ACTCAGACGG CCCACTGTAG CTCTACCGA ACCAGAACCT TGCAGGCACCT GAGGTAATGA GAAGAAAGCC  
 AAGAAGGTAC GTTCTTACCG CAATGGGAC CGCTACTTCA AGGGGATTGT GTACGCTGTG TCCTCTGACC GTTTTCGCAG  
 CTTTACGCC TTGCTGGCTG ANCTGACGNG ATCTCTNTCT GACAACATCA ACCTGCCTCA

SEQ ID NO:1517: (Length of Sequence = 411 Nucleotides)

TGAGCAAAAC ACAGAGGACT GCACCTCTAG TGGCTCGTAA TGAGAAAGAA GATGGTCTCA AACCTGAGAA AGATAATGTG  
 GAGTGGACCT CTGTTGTCTC AGTATTAACA GTCCCTTCTA GGAAGTAGGT AGCATTTCTG AAAATAGAGT GAAGCAATTG  
 ACTGATGGAT TTAATCTTTA AACTGCTTAG GTAACCATCA ATCTGTAATG AGCTTAATAC TCTTAAGTAG GTGCTATTTT  
 NCAATGTGTC TACTTTGCCA GTGATAAAGG ATTACGAAAA ATTCTTTACC AGAGGAAAAA AAAAAATTGA ATGACCTTTC  
 TTGGGAAGGT GGTCCTTGT TTGIGATCAA ACTTTGACAA GAAGTGGTAA TTAATTTCTT CTAAGGAATT NACCGTCTC  
 ATAGTGTGTT T

SEQ ID NO:1518: (Length of Sequence = 388 Nucleotides)

GGTGGGCAGC TTCTCTCTGC AGCTCTCTC CCATCATCTG GCTGAATATG GGGCTTINAT GGGCCTCAGG GGAGGAAGTG  
 TGTGCNAAAT GGTCCGTGGG CAAACATGGG CGGGCCTGGA AAAGGCACCA CAAGTTCCCA CCCAGTCAG TAGGATCAGC  
 AGTCTGACAC CCAGGCTTCA GGCCCTCCCC GACTTGAAGG TGGTGTCTCA CCAAGGACTC ACCCACTCCT GCCCAGGAGC  
 TTGTTGCTCT CCTGCTGCCA TTTATGGTGC CCAGGCTGTT TGTNCCAAGG AGTGTCTGTG GGCCAGCNCT GAGCTGCCCT  
 CAGCACCCCC TTGGCCTCTT TTCTGINCTC ATTGGTGCCC AAAGTCCGCA GCAGGCTGAA GTGGCAGG

SEQ ID NO:1519: (Length of Sequence = 358 Nucleotides)

TTGGTTAAGA CCAAAGTCAG ATCACTCCCT CCTAGCTCCA AACCTGCAGT GGCTCCCAAT TCINTCAGCA TACAAACCCA  
 GATCCTCAGG CTGCCATTIN TGGGCTGAAT CCTGTCCCTG CTGTCTGATC CCACCAGACA TAATGGAGGC CTGAGGTTCC  
 CTGAACACTC CTAGTTTAGC CTTAAGTTAA GTATTGTCAC ATGCTGGTTC CTATGCCTGA GATAATGTTT CACATTINAT  
 CCCATTGCTT GCCAGAAATA GAAACCCTTC CACATAATTN CAAAACAGAG TTTACANCAC AGAGCTTTGG GTGACTGCAG  
 GCCTCCAAGA ANGNAGGCA GAAGGGGCAC TGAAGAGT

SEQ ID NO:1520: (Length of Sequence = 379 Nucleotides)

CCAGAGTTAA ATATGCCAG GCTGAAAGAA GGTGTATAAT GTATGGNCGT NCTTATACCA AATGATTTCT TTGGAATTTA  
 AACAAATATG TTTAGTATTT TATTCTAAT TTAGGAAGAA AAAGCACTA AAGTTGINCT GACATTGTAC ACAGATGAGT  
 AGCAGTAAAC TTTTATTTAG TAAGCCCAT AGGATAGTAN GGNATAAAG TTGTTAGTGA GCAAAACAGG AGTATCCTGC  
 CATTGCTTTT AATCTINCTT GTGATAGTTT TGAGGGTACA ATAATTCCTG TGTGGGTGTC ACTCAAGCAA ACCAGAAAGT  
 GTCTTTTGTA AATACGCATT TTGGGCTTCA TCCTCATGGA GGTTCCTGTT GTTTGTGG

SEQ ID NO:1521: (Length of Sequence = 339 Nucleotides)

GGGACAGGAA GCCCTTTGGG TTGACTCAG ACTCAGGAGG TGACTCAAGC CTCAAGCTCA GAAGCCCTCT GTNACCATCT  
 GTTGACTCAG AAGCATGCCC ACCATCCCAT GCAGTGCCCT TCCAGGCACT GTCTGTAGC AGACGGAGTT CAGGCTTTGG  
 AAGTAGACAG ACCTGGGTTT AAATCAGAC TCCGCTTCTT CCGCCTGAAG CTCCATAACC TAGGATAAAG TCGCTAAGCC  
 TNCCTAAGT TCAGATTCTT TACCTCTAAG GTGAANGGAT TGATTCCAC TTTACTTCCC CCCTTTTCCC TTTANGGACT  
 CTGCATCCTC NTTGCTTG

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SEQ ID NO:1522: (Length of Sequence = 405 Nucleotides)

GTGAATTTCA AGCAATTGTT AATGGGGACC AACAGGGCTG CATTAGAAA ACCACTTTNN ACTGATCTCT CCCCCACATA  
 TTTTAAATTT GTCTTGCTTT GTTTATTTTG GTTATGCAAG TCCTTTCTCT TCATGAAACA AGTGTAAAGC TCTAAGGCTA  
 AAATAATAGT TATTTTTGTG GGCCCCAAAT AGCTACTTTT GAATTTCTTT CTTTAGTATA TCTCAAATCT GGGGAACATG  
 GAACITGAAG ACTCCTAACC ATGAAGCATT TGGAAAAATA CATATCATTG ACTTTTCACA GAACCAATTT CTTAAAAATA  
 AGGGGGCAAT ATCCAGATTC ACATGCATGT TCATAAATAA AGCTTTGGTT TTAACACAA TCCACACCAG CAATTATTTT  
 CAGCT

SEQ ID NO:1523: (Length of Sequence = 284 Nucleotides)

AGNVCACAGA ACTCCAATTC TTTATTAATC ACAGCTTGCT CACAATGACA TACAGGAAAA TAGCACTAAT GAAGNGTAAA  
 TATGCAGGCA GCAACCTTCA GGAGTTGGGA GTTGGGGAGA AACGNTTCA AACTGCGAT AGGTACTTAT GTTGGGTATC  
 TGGTGATTCT NAGTTGGCAC AAATGCCCTG CCTAGCCCCC TTAAGTCGT CACTTTCACA GATGNGTGT TTGTGTGTG  
 GTGTGTGTAG TAGGCAGGAT TGCCTTACAC TGGGAAGAA AGAC

SEQ ID NO:1524: (Length of Sequence = 299 Nucleotides)

GTGCTGTAC GTGACAGTTT TGTCTGATCA CATTTTAGGA AGATGATGCT GTTCTTNCIT CTTAAGTATT TATTTNATC  
 AGTCAAGTGA TAGGAAGTTC AATTTCAAGT ACAAGACATT TGGATCAAGA AGTGACTATT ATTTATTTAT TINAGATGGA  
 GTCTTGCTCT GTTGCCCAAG CTGGAGTGCA GTGGTGTGAT CTCAGCTCAC TGCAACTTCC TCCTCTGGG TTCAAGCAAT  
 TCCTCTGCT CAGACTCCCG AGTAGCTGGA ATTTACAGGC ACCCACCAGG ACCAGTGAA

SEQ ID NO:1525: (Length of Sequence = 398 Nucleotides)

GCCATGAAG CAGCTCTCGT GGATTGGAGT CTCATGCCCTG CAGCTCTCCC ATACTGGAGT TGCTGCTGG TGGTCTTACA  
 GTGCTGGTGT CTGGGCAGTG GCCTCACTCC CATGGCTCCA GGAGGCATTG CCTGGTGGAG GGATCTCTGT GGTGGCTCTG  
 TCCTGTINAC AAGTTTCTGC CTGGGCTTCC AGGCTGTCCA TGATATCCTT TGAAATCTAA TTGGAGGCTG GCATGACCCC  
 ATGCTTCCA CACTCTGTGC ACCTGCAGAA TCAGCACCAT GTGACACTG CCAAGACCTA CCTACCATT GTGCTCTCTG  
 GAGCAGCAGC ACAAGCTACA TCTGGGGCTG CTGAGCCAT GGCTGGGGCT NCCAAGGAGC AGAGTCTGA GGGTGGCC

SEQ ID NO:1526: (Length of Sequence = 318 Nucleotides)

GTCTCTCTCT ACTGCACCAT GATGCCITTA AAAAGAATCT AGGGGCTGG CACAGTGGCT CAGCCTINTA ACCCAGCACT  
 TTGGGAGGAG TTCATTGAG CTCAGGAGCT CGAGACCAGC CTAGGCAACA TAGTGAGACC CCGTINTCCA CTAAAAATGA  
 AAGCAAATTA GCTGGGTATG GTGGTCCATG TCTGTACTGT GGCTTAAGCT ACTCGGGAAG TTGAAGCAGG AGGNTCACTT  
 GAGCCAGAA GGTCAAGGCT GTAGTGAGCC ATGATINTGC CACTGCATTG CAGCCTGGGC AACACAGTNA GACCCCTGT

SEQ ID NO:1527: (Length of Sequence = 313 Nucleotides)

TTGGCTAGAA GGGAGGCTGG AGCCTTTCAT GGTGGCTTTT GAATGCCATG GTGAATAGTT TGTCTTTTAT TTGTNATTGA  
 ATAGCAATTT GTACACTTCT GAGCTATTAG AGTGAAATGA TTAAGCCTGT GGTTTAGGAA GAAAGAGCCT ATTAGGGAGA  
 TAAATCTTTC CCTAGTTGTA GGAAGGGTTG GAACAGTATG ATATGGAGAG GGTAGTAATG AATGANGGAA TNGAAAACGA  
 GAATAATTTT AATGATACTG GAGGTGCAGT ATACAAGTTG NGCAGTAGGT TTATGTCTAG GAAGATAAGA AGT

SEQ ID NO:1528: (Length of Sequence = 405 Nucleotides)

GCCGTCGCTA CCGCCACCGC CACCGCCACC GCCGCGAGT GCTGTCTCTA TGGCGAGGAG GAGGAGGAG AGCGCGAGTC  
 AGCGACACAA GTACATAAAT AAAGGATAAA ATATTTTATG AAACAAATCT TCAATCAAGT ATAACATTTT GATGCTTGGC

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ATCTAGACTC CCTTGTGCCC TCACTATGCC AGCGGAAC TGATCATAG CCAAAGAATT TGTGAAGTTT GGGCTTGCAA  
 CTTGGATGAA GAGATGAAGA AAATTCGTCA AGTTATCCGA AAATATAATT ACGTIGCTAT GGACACCGAG TTTCCAGGTG  
 TGGTGTCAAG ACCCATGGA GAATTCAGGA GCAATNCTGA CTATCAATAC CAACTATTTC GGTGTAATGT AGACTTGTTA  
 AAGAT

SEQ ID NO:1529: (Length of Sequence = 241 Nucleotides)

GAAGGAGAAA CACTTCITGC CTCCATAATT CAGACAGTAA ACTGATCGCT GAGATTGAAG TTTGCTTGT TCTGGGGAA  
 GCTTNAAGAT CCTCGTGGGA CCACCATCCC CTGCTCAGTC CTCCCTGGAA GGGGGCACTG GCTGGGTATG AGCCGCGTCA  
 CCGTTGGGTT TGTAACTTIN TGGATGGTGC CTGNTTTCA CCTGGGGCTG GCTGAGGAAA GGGGAGGCGG TAGNGTCTG  
 C

SEQ ID NO:1530: (Length of Sequence = 356 Nucleotides)

GGTCTCATGC AAGGGTTTCC CATGCCGTGTA AGTGTGTTTG TAATCCACACA TGTATCAGGT GCCTGGCTGC TCTGGGACTT  
 GCAGTAATTG TCTCTTGTTT GTTTCAGGTG TGATCCCCTG GGCCCGTTTG TTGTGGGGG AGAAGACTTA GACCCTTTTC  
 GGTGAGTACT GCTGGGGAGG TGGCAGCAAC ACAACTTGCT TTNTGGCTT TINAGCCCA GTCATCTTC TAATTINAGA  
 GTTTTCGGTC AGTCTCTTCC TTTGGNGTN GAGGAGGCAG TTGTTTCTG AGCAGCTGAG AAAGCACTGC CACATACGCT  
 GGCCCTCCA CACCTAGAGC GGTGCAGGAG AGCACT

SEQ ID NO:1531: (Length of Sequence = 379 Nucleotides)

CCAACAGATG CTGCTACGTT TCTTCAAAA TTGTTAAACA TCCTTGGCG AGAAGCTGC TTAGTTATAT CCAGCGATTG  
 GTTCAAATCC ACGTTGATAC AATGAAGGGT GGGGTATCTA GCAGGATGTC TAGTTACGC ACTGGGTGAA AAACAACCAG  
 AGCTGCAGAT AAGTGAACGA GATGTTCTCT GTGTTTCAGAT TGCTGGACTT TGTCTGATC TCGGTTCATGG GCCATTTTCT  
 CACATGTTTG ATGGACGATT TTATTCCACT TGCTGGCCG GAGGTGAAAT GGACGCATGA ACAAGGCTCA GTTATGATGT  
 TTAGCACCT TATTAAATC TAATGGGATT AAGCCTGTC TGAACAATA TGGGTCTCA

SEQ ID NO:1532: (Length of Sequence = 307 Nucleotides)

GATAAACTTG AGCCACCAAG AAGTGGACTC TGCCTAGGAA GACAGTTTGC TGAAGTTAGA AAGTACTGGT CTAGGAACCA  
 GAAAACCTGA TTCTNCCCA GAGTTAGAAT TGINAGINAG TTCTINCTGG TTTNAGTTT CCTTATCTGT AAAATAATTA  
 CCCAGTTCAA TTGATAATC TCTATGATCC CTTCACATT CTGCATACTT GGATATCTAC TGTTTCTAAA TATTTTGGCA  
 TTTCTATAA AGCCCTTTCA CATTNCTTT ATTATTTTTC CTCACAAGA ATTCTGAAA TAGGATA

SEQ ID NO:1533: (Length of Sequence = 337 Nucleotides)

ATGGCTTTAT TTGCTGATTG AGAAGTGGTC CAGCCGTGGG CTAGCAGTCA TTTACATATC AGTGACCAAA TGCAACATA  
 CCGTACTAA CAGTGCTTTG GTCCATGACA TACCTTTTTC ACAGCCCAA GCTGAAACGT CAACCTATC TGGGGTTACT  
 TGCTTATACA AAGATGTTAC TCTAGCAATT GTTGCTTGAG GGCAAGACCN GATGATTGTC ACTAGTAGGA AGAAAGCAGA  
 AGTGATGCAG CTTACACTGC ATAGTCCCTA CCTTNTGGA TTAAATGGAA AAGTTGCTCA AACATAAACT TGTCTTAAAC  
 AAAGGTGGGT AAGANTC

SEQ ID NO:1534: (Length of Sequence = 317 Nucleotides)

ATGGGCATGT GGGTACTACG TTTAAATATT TAATTATTTT AAAAATAAAA TAGGAAAGAT AAAATAGCTT AAAGTGTATT  
 GATGCTCTGA ATAACCTTAT GAGTGAATAG ATACTGAAAT TTGAAGTCAG TGTTTTCAC AACAAATCAA GATTTGGGAC  
 TGGACTTACT GGGTTGGGGA CTTCCTAGGG ATAACGGTGG TGCTATGAGC ATGCTGAAA GATGAGAAGC AAAAGCCTGG

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AATTGGGAGT CCTGTACTGT CTTTAGGGTA TGCAAAGAGG CTCCTTCTTT TCTAGGIGTT CATCAGTACA ATATGAC

SEQ ID NO:1535: (Length of Sequence = 323 Nucleotides)

ATATTACATT GATGTCAGTC TTAAAGATG GAGTAGGACT TINCAGGCAG CAACGAAAGG GAAGGACATT TCAGAAGCAG  
AAATACCATT TGTAAAGGA TGACAGCCAA GAAATATTAA AGCATATTTG GAAAGTATTG AAAATCTCTG TGTGGCTAGA  
ACTTTAGATG AAGANTCAGA TACATCTGGA GAAGGAGATT NAACNGATG ATCATAAAGA ACATTTTATT TAGGCCATGG  
TAAGGCTTGG GCACTNTGGA GCCCATGAAG GTTTTGGAC AAGGGAGTTT CCTAGGGAG GAGTATNAAG CCATAAACA  
AAT

SEQ ID NO:1536: (Length of Sequence = 305 Nucleotides)

AACCACATTT TACTGCATC TNCCTCCGC TGGATTCCAA CATGCTGGCC CGGAGCGTGG CTGGCTGGAA GCAACTCCAA  
CAGGTTTTTC CCTCCCCGT CATGTACATT ATTTATTTTT GATCTACTC ACTGTCCAA GTCCAGAGGC AGTTACAAAA  
AACACTCTTG ATGCAACCG TGAGTGGCTA CAACACACGG ATGGGGTGG GCGCGATTCC CACAACAGGG AGTGGAAATCC  
GGGAAGATG ATATATAGGG GCAAGACGGC CCTTACTTT GCTAAGAGTA TATGGGAGCT CAAA

SEQ ID NO:1537: (Length of Sequence = 279 Nucleotides)

GGTGGCAGCG GCGGCGCGC GACTGAAGCG CGCGAAAGC TGAGGCGGCA ACGTCGGGA CGGCTGCNCG GGACGGCTCT  
GTAGGAAGGA ACTTGGTTCC CCTCCCTCA GCTTCGCCC CAAAGATTG AGAATGGACA GTTTAGAAGA ACCTCAGAAA  
AAAGTCITTA AGGCTCGAAA AACGATGAGA GTNAGTNATC GTCAGCAACT TGAAGCAGTG TACAAGGTCA AAGAAGAACT  
NTTGAAACT TGATGTCAAG CTGTAAATN GCAACCATG

SEQ ID NO:1538: (Length of Sequence = 310 Nucleotides)

ATATTTCCIT CTGCTCTGAC TCGGAAGAA CTGCACTGT TGCCTAGGCT GATAATCCCC GAAAAAAGT AACAAATGCA  
ATINTACCCC CCACCCCAT ATACAGCCCT CATATATATA TATGAGAGAG AGAGAGGAAA AGATCATGAG ACATGCTTTC  
TAGGGAAAAA AAATCTAAC TTCCCTAGCC ACTGTAGTCA TTTGAAACCT GAGTTAGACT ATGAGTTAGG AAGTATTTTC  
ATAGAGITCA ATTAATATAT TTCTGCTCTA TGCATGGATG CTAACAGGTT TAAGGAAACA CAAAAGCCAA

SEQ ID NO:1539: (Length of Sequence = 267 Nucleotides)

GAGATTTTAC TTGTAAATCG AGTAATTTAG CCACACTCTT GTGAGGGAAC AAGCCAGAGC CAGGACCGCA TATTACCCGG  
TAAAGCTGCA GAGAAGACTT GAGACTTGTA AGATTGNNCC NGGCTGCAGT CCGTGGTCA GTAACATCTG CAACATTATA  
CAGCCAGCAG ATCAGCTCTT CCAGCTGACA GCAAAATGTC TTCACACATT GCACCACTGA TTCTTTTCCC TGINTCTCTC  
CTTCTCTGGG GAAGCTGCCC TTNAACA

SEQ ID NO:1540: (Length of Sequence = 354 Nucleotides)

ATTATTTCAG ATGAAAAAA ATCAAGGCTT AATTTAAGTA ACTTGTCCAA GGTCAAGGAG TTGACAAGTG GCTGAGCTGG  
AGTTCAGCAT CTCAGACATC TTCTTTGAA TCCTTGCTT CCTGTGAAT TTCAGATGAC GGAGCATGAC GGCTGCATGA  
TTATGGGGTC ACCGGCCCTG TCCTGGGCCT GAGGGACCAA GGATCAGAAA GGGCAAGAAC CAACTCGNTC AGCTAGTGAA  
AGTGCAATTG GACANTGATC CTGTTCCGG GNTTAACCTT CCGCTTGGCC TTAAAGAGGG NTCTTTGAAA TGCACCAAGG  
GGGCTAGAG GAAGCAAGCA AACTNCTTGG ACCT

SEQ ID NO:1541: (Length of Sequence = 403 Nucleotides)

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GTGATGTTAT ATCAGGTAAA ACCTGICTAA GGAGAATAGA CAGTAGTTAG TTCAACTTAC TCATTACGTA TTAGGAAGAT  
 TAACCTGGTT ATCAITGITT TATACATATA TATATGNAAT ATATATGAGT ATTGCTATAA ATATAATACT TTTACCTTGT  
 TTATGTTT ACTCAATATT CTCCTTTTCC TCTAAAATAA TCTGAAGTGA CTATTATCAA TAAGTTTACT ATGCCAAAAT  
 TCATTAATIG CCTTTCACCT AACTTTGGG GCCATAATAA ATAATAAAAT GTATTGCCAT AACATTAATA AACTACCTTA  
 CAAAACCACC AATTAAAATC AAACAACCAA AAAGGTGTTA TTTACATCTG NNCACATAAA TCTACTAAAA ATACAGGGTT  
 CAT

SEQ ID NO:1542: (Length of Sequence = 333 Nucleotides)

CTGGTACATG ANTTTATAAA AACATGTCAC GCCCGGCTCT GTGGCTCATG CCTGTAATCC CAGCACTTTG GAAGGCCGAG  
 GCGGGCGGNT CACAAGGTCA GGAGATCGAG ACCATCCTGG CTAAACCGGT GAAACCCGTC TCTACTAAAA ATACAAAAAA  
 TTAGCCCGGC GTGGTGGTGG GCGCCTGTAG TCCCAGCTAC TCTGAAGCT GAGGCAGGAG AATGGCATGA ACCCGAAGG  
 CGGAGTTTTC AGTGAGCAGA GATCATGCCA CTGCACINCA GCCTGGGTGA CAGAGCAGAG CGGGGACTCC GGAGCAATGG  
 GNAGTACAAT CCT

SEQ ID NO:1543: (Length of Sequence = 329 Nucleotides)

CCCTGATAA ACCTATCAGA TTCTGTGAGA CTTATTCAIT GTCAATTAAGA ATAGCAGGGG AAAGACTGGC CCCCATGATT  
 CAATTACCTC CCCCTGCATC CTTCCACAA CATGTGGGAA TTGTGGGAGA TACAATTCAA GTTGAAATTT GGGAGCGGC  
 ACAGCTGAAC CATATCAGTC TGTATTATCT CTCCTTTTTC CTGCTTAAAG NGAATATACG NAGGTGTTGT TTTACGGNT  
 TATACATAGG TATTCTGAAA GATGGGGTTA TTTTCTGTT CANACTTTGA CTAAGTGGCT TCTTTTGTC CCTATGTGCC  
 AGAATAGCC

SEQ ID NO:1544: (Length of Sequence = 313 Nucleotides)

CGGAGATCCG TGATGTAACA AGGATTGANC GAATCGGTGC CCACTCCAC ATCCGGGGAC TGGGGCTGGA CGATGCCTTG  
 GAGCCTCGGC AGGCTTCGCA AGGCATGGTG GGTCACTGG CGGCACGGCG GCGGCTGGC GTGGTGTGG AGATGATCCG  
 GGAAGGGAAG ATTGCCGCTC GGCAGTCCT TATTGCTGCG CAGCCGGSCA CGGGGAAGAC GGCCATCGCC ATGGGCATGG  
 CGCAGGCCCT NGGCCCTGAC ACGCCATTCA CAGCCATCGC CGGCAGTNA ATCTTCTCCC TGGAGATGAG CAA

SEQ ID NO:1545: (Length of Sequence = 384 Nucleotides)

CCCCAAACCT GGAGCTAAGA ACTTCATCTC ACTTTTGACA CCCAGCCCC CAAAATATGG AAGCCCAGGA GAGCCAGGAG  
 AATTATAGC AGAGGCTTAA AGAGAAAGTT ATGATTGTT TAAAGTAGAG AATAAGGTGA AAAATAAAC CTGCTACTCT  
 GTCTGGAAGT CCTGGAAGTC TCCTTGCCCA ACCTCAACTG GCCTGTGGGC TCCTGINTCC TTGCTCTGGG ATGCCATGGT  
 GAATGTGAAA ACAGGGGAGG TTGTGTGTGG GGTGGGAAT GGCCINTCGG TTGCAAGGCG AGTCCTTTGC TGAGCCGAGC  
 CTGAGACCCA GCTTATGGGC TTTATCCAGG TGAGAAAATN CTGGGGACAT GTGTTGAGG TTTA

SEQ ID NO:1546: (Length of Sequence = 345 Nucleotides)

TTTAAAGAAC AATGATTAG TGAAAATNCT CTCAGTTTTT TTAAATTGGT TCAGCAATTG AITTAATTACT GAATCTTGAC  
 CCTAACTTT TTAGTCTAGA AATGTGCTTG AGGAATACAG GCTGGAGATC AGCTTTTGA CATTGCAITC CCTCCTGGN  
 TCACATCCAT GTTGAATCA ATTATAAAC TGCCITCCTA AGGCTTAAAA TGATGGTGAT CTACAGACAA GTGCCITCCT  
 AGGCACAGG TTGCTGGAGA CTGATGCCAG GCCATGGCT CTAAAGGGA ACATGAACT CATGGCAGAA ATGGTGGAAA  
 GTAGAGAAAT GAATAGAGGG GGGAA

SEQ ID NO:1547: (Length of Sequence = 342 Nucleotides)

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GGAGGCTGAG GTGGGAGGNT CACTTGAGCC TGGGAGGTTG AGGCTGCAGT GAGCTGTGAC TGCACCACTA TACTACAGCC  
 TGGGAGACAG AGTGAGACCC TGTCATATAT ATATATATAT ATATGTATGT ATATATATGT ATGTATATAT ATCTCTAATA  
 TATTAATATA TATCTAATAA ATGTATCTTA TATATAATAA ATATATCTAA TATATAATAT ATATATATNCC NAGAGAGGGA  
 GAGGCTCTTA GGAAATTATC TTCTTGCATA TTATGTTATA TTATGCTATA TTTGGCTATT TCCTAAGAGC TCTATCGTAT  
 TATTTCATT TATTTGTGAG GA

SEQ ID NO:1548: (Length of Sequence = 334 Nucleotides)

GGAAATAAAG GTGACATGAA CTAACATTC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT  
 CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGAAGT GGTATCCAGA  
 TAGGTTATCC TTGGAGAGTA TCCNGGATG TCTCTTTTCC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG  
 AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTTGAGGAA TTCACGTAAG GNATGATAAT CTGAATTTTC AGGGCTAGGC  
 TCAGAAGCAG GAAT

SEQ ID NO:1549: (Length of Sequence = 362 Nucleotides)

AGGATTCTGG GGGCTTAGAG AGGGCAGCCT GGAGAAGCCA GAGTTAAGCT CAGAACAAGA GGTGCAGGAA GAGCCACAGC  
 AGGGAAGGGA AGAGAGATCC CAGAGGAGGG GCAGAGTINIG GCAGGACAAG GGCCCTGCCG TACATGCTAT GCATGAAGGA  
 AAATCTTGAG ACTAAGACTC ATGAAAAGNT CCAAAATAAT TATTTCTGTG GGCCCTAGA AGACTNAAGA GACATTINCT  
 TOGCCATTG CCCAGGGCTG CCTGGGCAGG AGACAAAGGA ATNAAAAGTC CAGGGGGAAA GCAAAAATCT ATGGGCTTCT  
 GAACACATGC TTCCCGGAGC TCGTCTNCAC AGCATCTTCA CC

SEQ ID NO:1550: (Length of Sequence = 328 Nucleotides)

GGACTAATTA ACTAAGAGG TTTTGTACAG CAAAAGAAAC TGTCACAGA GTAAACAGAC CTACAGAATG GGAGAAAATA  
 TTCACAACT ATGCACCCAA CAAAGCTCTA ATATCCAGAA TCTATAAGAA ACTTAAACCA TTGAACAACC AAAAAACAA  
 CAACCCATT AAAAGTGGAC AAAAGTCATG AACTGACACT TCTCAAAAAA AAGACATACA AGCAGCCAAC AAGCATATAA  
 AAAATGCTTG ATATCAITTA TTATCAGATG AATGCAAATC AAAACCACC AAGTCTTTT CTCTGTCTA GGNIAATTTA  
 TTTTAGGG

SEQ ID NO:1551: (Length of Sequence = 365 Nucleotides)

CAGGAATTTA CATGGGGAGA CCTACCTATG GCAGCTCTCG CCGTCGGGAT TACTATGACA GAGGATATGA TCGGGGCTAT  
 GATGATCGGG ACTACTATAG CAGATCATAC AGAGGAGGAG GTGGAGGAGG AGGAGGATGG AGAGCTGCCC AAGACAGGGA  
 TCAGATTTAT AGAAGGCGGT CACCTTCTCC TTACTATAGT CGTGGAGGAT ACAGATCAG TTCCAGATCT CGATCATACT  
 CACCTCGTCG CTATTAAGC ATGAAGACTT TCTGAAACCT GCCCTAGAGC TGGGATATTG TTTGTGGGGC AATATTTTIN  
 ATTGTCTCTT GTTTAAAAAG TGAACAGTGC CTAGTGAAGT TAGGT

SEQ ID NO:1552: (Length of Sequence = 330 Nucleotides)

GATCCAAAAA AATTACTGA AATAGCAAAA ACGTGGACTT TGGGATTTCC TCTAACTGCT GCAAATTATA ACACAGAATT  
 GCTCAGTGT AATACITGAN TTGTGGGGCC AAGTCTCTG GCTGCCCTAG TTCTCTTTC TGGCATTTGA AAGCCCTTGA  
 GCTAGCTATG GAGCTAATCT TTGGACAGGC TTTTGGTTC CCAGGAATGT CATGCCTTTG AATTCCAAT CTATATATAT  
 ACAGTGTGTG TGTATGTATA NCTGTCTTTT CACTGTAAGG CACCTNCACC CATCCCTTAT AGAAGGNGGC CACAAACAAT  
 CAAGCAAATG

SEQ ID NO:1553: (Length of Sequence = 304 Nucleotides)

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CCCTGTGCCC ACAGCCATTT AAAAATCTTC TGAAGGGCCT CAGGGCACAA AGTGATCATT TGGGATCCTA AGTTAAAAAG  
GAAATGCAAG AGTAGGNTAC TCCAATTCCA GAGTCTTTGC AGGAGGCTAA TCCCACAAGA AGGGTAGCAT CAGAGAAGTG  
GGCATTGGTC TTAGTGGTGG ATCATCAGGT AGACAAGTGA TAGTGTGTGT AACCCATCTG AAATTCATTT TACCGTCACC  
ACTCTTACAA AGGACAGTTT ATCCCAAGG ACAGTGCTGA CGGGAGGGG GACAGGCAGG GAGT

SEQ ID NO:1554: (Length of Sequence = 309 Nucleotides)

TGTGTTACTG ACCATGTTTT TGAGAGTAGT GCCCCTAACC ACTTTGTCTC CACTTGCATA GTGTAGTGAT TTINAGGNCT  
CTGTATGTCA TATTATAACA GAACTGACTG TATATGGCTA TTTTATCCCA TAATCAAGCC AATTCTTCCA GAATATTACC  
ATCAGTATTA CCACATACAT CCTCCCAAAT CTTATTTCOA AGAATAAATA TATAGTCACT CATGGTTTTT AAGNAAACCC  
AAAATACTC AACCAAAACC TTGAGGAAGG TTTTCCAGG GNTTCTACC TTAATTATTC ATAATGATT

SEQ ID NO:1555: (Length of Sequence = 326 Nucleotides)

GTTTAAAAAC TGTCCAAATG TCATTTTAAT TTATGAAGGC ACCCAGAATA AGINCTAATC TCATACTGCC CCAATATATT  
TNCGAAGCC AATTCTCTCT TTTATTAAT TTTACTGAAA ATAGCACTTT TTTCTCCCC CTGATAGTAC TGGGTAATGT  
TAGAATGTCC TCTAAATTC TTTGACCTT ATTTACATTC TCAAGAGNTT TTTTAAATT TACCAATAAG ATGTGCTATT  
TGAGGAATTA GACTTTAGTT CAGTTGTACA TGGNTATGT CTGCTCATAT CATTCATGTC TGAGNCTTTC ATTTTATTAA  
TATGGG

SEQ ID NO:1556: (Length of Sequence = 375 Nucleotides)

CCCATCCCTG TTTAGGTGCT TGTCTCTCCT TGAGGAGCCT CCAATGCTGC TGCTCCTATA CATGTCACAA TTTCAGACCC  
AGCATGCTAG GAACTGCTGC CAGCGCCTGG TTAAGCCAAT ACTAAATGGG GCCAAACAGG TGAACAGACA TTCTGTCTTT  
CTCCAAACCT CTGAAAAGA TTCTGCACT CATCTCACAG TAATTTGTTC CCTAATTTAC TCTTAGGAAA TTGTCGTTAA  
AGTCTGATTA GGTTAAGTCC AATTCCTGT AATTAGGATC CTCAGTGAAG AAAAATCTAC CCATCACCAC AATTTATTTT  
CTTTCTATA GCTCCAGCAT CAGTAATTGT ACCATTATTT TTGGCAGCTC TGGGG

SEQ ID NO:1557: (Length of Sequence = 306 Nucleotides)

AATTCOGAAG ACTATTCCTA TACATTAGAG TGAATTINAG ACTATCTCCA TCATCTCCA GCCATTCTTC AGTGGGAAAA  
AAACGGTGGA ATTAACTAG TGAACAAG GCTTTCTCAT CTAGTCCCAA TCCAGTCGAT AAGCTGTGTT TNCCAATCAC  
TGCTCCAGCA CAATGGCCTT CAGTTTATTT TTAAGTCTAT GGCATGCTG AAGGACCATG TTCCCATGAG TGACACCTT  
CTGTAAATGT GGTGGCAGAT TATGGGCTGC TGTTTAGAA GGGACTGNCA ACTTGCTGGG GGTAT

SEQ ID NO:1558: (Length of Sequence = 292 Nucleotides)

AATTCOCCTT TTCCAAATGT ATTTTCAATC CCTTGAGTGT CTAGGCTTCC TGCTTTTAAG GCTTNCCTTC TAACCCAGGG  
TTGCCCCATT CACCTTAAAA CATTTTTCOA TAACCCAGAA AAAACCAGG TGAACATACC CAAGCTCCGG AACCAGCAAA  
TNTGTTCGA ACCCGCTGA TGACTCCAG GGAAGCCAA GAGGACAAAG ACAAGGATGA GGACGAGGAC CCAGGGACCG  
NTGGTGAATG GCAACTGCTG TCAACTTCAC TTTTCAACCT CAGNCAGTTT GT

SEQ ID NO:1559: (Length of Sequence = 246 Nucleotides)

GTGGTCCGTT CTCAGCCCAA CAAGAGTAT CCTTTAAGG TCCACACAGC CTGCTCTTCC TTCTCCGCA TGAGCCTCTG  
GCATGGTCTT TCCTCCAGCT GGCCCCGGG TGGGCAGAGC CTCTCTCTG CGGGGCCCC GCCCCCCCC TCCTTTGCTT  
GGAGTNAGG TGTTCATACC AAAGACGAA CCATTTCCGC TTTAAAGAAA ATATATNCAG AAGCAGCCGC TGCTCGNAG  
CCCTGG

SEQ ID NO:1560: (Length of Sequence = 383 Nucleotides)

CCAAAGGTAC AACAGATTAA CTACATTAA GACAGGAATC TTTTCTAATC TCTGIGCCTA TTAAAGAAGC CACCTGCTTA  
GAAGTACTTT GTAGATGAAA AAATACTTAT GAATCCACTG TAACITCACA ATCTTGAATG CCAAGGAAAA ACTTTACTAG  
TTTCATTTAC CACTATTCTT TAAAGTNCIT TTTGATTTTA TGTTTTAAAT TTTTAAATTT TATATTTTGA GACAAGGTCT  
TGCTCTGTG CCCAGGCTGC GGGGCAGTGG CATAAACGTG GCTCACTGTC ACTTTGACCT CCTGGGCTCA AGGAATCCTC  
CCATCTTAGN CTCTGAGCA AACTGGGNC ACAGGCATGC ACCATCATGN CCAGCTAATT TTT

SEQ ID NO:1561: (Length of Sequence = 313 Nucleotides)

CCCCCTCCAC CGCAGTCTGT GCCCCGTCC CCACCACCAC CTCCCAAC CACTTACAAC TGCCCCAAGT CCCCACCTCC  
AAGAGTCTAC GGGACGATTA AGCCTGCGIT CAATCAGAAT TCTGCGNCA AGGTGTCCCC CGCCACCAGG TCGACACCG  
TGGCCACCAT GATGAGGGAG AAGGGGATGT ACTTCAGGAG AGAGCTGGAC CGTACTCCT TGGACTCTGA AGANCTCTAC  
AGTCGGAATT NCGGCCCGAA GNCAACTTTC GNAACAAGAG AGGGCAGATG NCAGAAAACC CATACTCAGA GGT

SEQ ID NO:1562: (Length of Sequence = 320 Nucleotides)

AAACGGGCG CGAACCGCAG TATCATGCTG GCCAAGAAGA TCATCATTAA GGACGGAGGC ACGCCTCAAG GAATAGGTTC  
TCCTAGTGT TATCAOCGAG TTATCGTCAT CTTTTTGAG TTTTGTCTT GGGGACTATT GACAGCACC ACCTTGGTGG  
TATTACATGA AACCTTTCCT AACATACAG TGTTAACAG TTCTAATACA GCAAATTTAA TACAATTTT TATTAGATCA  
AAATTCATA GAATGTTTCA TATGTTTTAA GGAAGGTTC TTGAATTTCT TCTTTTCAAT GGAAGTCTTC ATTTGGAAAA

SEQ ID NO:1563: (Length of Sequence = 299 Nucleotides)

GCACAAGCAT GACCTGAACC TGTCACCTGC CCGINAGTAT TTCACATTC TATAGTTTTT TGTGATTCTG CCTGCATTTA  
ATCATCATCA CCAACAAAA TAGTTCCTCT GAAGAATTAT TTTACTAG GATTCTCAGG NTATCTCCTC TCAATCTCTA  
TTGGGATCAC TCCACTCTGA CTGTACACT CATTTTCCCA CTGATGTAGC TGTCTCAAG TTAGAAGTGA AGTCTCAGT  
CTTCATTTTA TCAGTCATCT CAGCAGCAIT CATATGGTT CAGGCACTCC CTCCTATTT

SEQ ID NO:1564: (Length of Sequence = 325 Nucleotides)

CAGATGGNTC AGTTCATACT CTGGCAGTGA ATTTTATTT CTCTAAATAA AAATGGACAG GTTAATTTAT TAAGCAGCTG  
TGTATCAAT ATGGTACGTG TGTGINCTTG TATAGATAGA TGTATATGTA CATAATAAC TATACATTTT NCTGGACACA  
TAATATTINA GGTGCCITAT GTATGCTAGA CACTGTTCTA CCATCAGTAA AAAAGCACTG CCCTGTTTTA CTGTGATTA  
AAAACAAAAT TCTGAAAATA GTGANCAATG AGGCTTACAA CATTTGTTAC AGGNTAAGGN ATCTCAATTT AGGAAAATGT  
TGTC

SEQ ID NO:1565: (Length of Sequence = 382 Nucleotides)

TTTTTTTTTA TATTAGTGCC TGCTTTTAA AAGTTTATTT TACATTTTAA ATACAGTATT TTTCTATAA AAAAAAATC  
CAGGAAGTGC CTAATCCAT GGTTCCTATA CCATATGTAC ATGAAAGCTG ACAGAGAGCC TGACAAATGT TCTGGATGTA  
ACAGTATGAA CACCTATGAG CTGGGACTAC TCTGANTCA AAATTAATAA ACACAAATTA AGCACTGCTT AAGAAAAA  
AAATCCAGTT TCTGAACAAC CAAAAGAGAA CAGAGTTAGA TATGTACAAA ACCAGGTATT AAAAAACAGN AAGGAATACA  
GCACACAAA ACTCAACAN CCCATATGTA GTGAACGTGA TATACTGCAG TTAATGAAAA CC

SEQ ID NO:1566: (Length of Sequence = 305 Nucleotides)

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GCACTGTGGC TAATTGTAGC TCAAAAGATC TGCAGAGCTC CCAGGGCGGA CAGCAGCCTC GGGTGCAATC CTGGAGCCCC  
CCAGTGAGGG GTATACCTCA NITACCATGT GCCAAGCAT TATACAATA TGAAGGAAAA GAGCCTGGAG ACCTTAAATT  
CAGCAAAGGT GACATCATCA TTTTNGAAG ACAAGTGGAT GAAAATTGGT ACCATGGGGA AGTCAATGGA ATCCATGGCT  
TTTTTCCCA CCAACTTTGT GCAGATTATT AAACGGTTAC CTCAGCCCC ANCTCAGTGC AAAGC

SEQ ID NO:1567: (Length of Sequence = 292 Nucleotides)

GATTTCCCTG GGGAAGACAA CATCACCAGC AAATGGATGA TTGTCAACTG GGGAGCCATT GACTCTCCAC TTGATTGTGG  
GTTGAGGTC TNCITCAGCC TCACATAACA AGATGCCATT GCTTCCGGTG CTATACACAG CACTCTGAGG CTTCTTTGTC  
CAGCGAGGAG GCTCTTCTAC TATAACGTGA AAATCGTGAG TGGCTGTTCC CAAGAAATTG CTGGCTGTGC AGCGATAATT  
TCCTTTGTCC TGGTAGGAGA CATNCTCTAT CTTCAAAGTC TTGCCATAAT TT

SEQ ID NO:1568: (Length of Sequence = 204 Nucleotides)

ACCTACTCAG GAGGCTGAGG CAGGAGAATA GCTTGAACCC AGGAAGCGGA GGTGCGAGTG AGCGAGGTC ATGCCACTGC  
ACTCCAGCAT GGGCAATAGA GCGNGACTCT NTCCCCCGG AAAAAAGAA CAAGGGCTAA NITCAAATCA AATTTTCCCT  
GTACCCTAAG AANAATAATT AGGNCGGGAG ATGTTTGACT AAGT

SEQ ID NO:1569: (Length of Sequence = 362 Nucleotides)

CACAAAGCCA AGTACAGAAC CACAGAATGA AGCCGTCACA AATGTTGAAT CCCAAACAC TAACAGGAAC AACTCGTATT  
TCCATTAATC AAGATTTTAG TATACCAAAT TTTCTAGTTT TTATCTCATG GAAATATAAG GGTATTTTAT CTTTGTATG  
CTACTGAAGG GNAAACATCA TCATACAGCA ATGAATACTT CAAGGGNCTT GTGATCTCT CTATTATGA CAGTGGGGTG  
TTAAGTCTC CCACTATTAT TGTGTGGNG GCTACANCNC TTTGTAGGGC TCTAAGAAGG TGTTTTATGA ATCTGGGGGC  
TCCTCTTTGG GNGCATATAT AATTTAGGGT AGTTAGTTCT CC

SEQ ID NO:1570: (Length of Sequence = 262 Nucleotides)

TGCTAAATGA TAGANGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTTTAGAAT AGGCAAACT  
GATCTNTTGT GGTAGAAGTA AGAAGTGGG TACCCCTCG AGGAAGAGAA TTINCTTTGA AGTGGCATGA GAGGATTTTT  
TTGGCTAATG AAATTATTTT NATATCTGAG TAGGGTTGTG GGTACACAG TTTAGGCATT TNCAAAACAT CATGGAACCA  
TTCATCCAAG TCCTGTGCAT TT

SEQ ID NO:1571: (Length of Sequence = 402 Nucleotides)

TGCTAAATGA TAGAAGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTTTAGAAT AGGCAAACT  
GATCTGTTGT GGTAGAAGTA AGAAGTGGG TACCCNCTGG AGGAAGAGAA TTINCTTTGA AGTGGCATGA GAGGATTTGT  
TTGGCTAATG AAATTATTTT TATATCTGAG TAGGGTTGTG GGTACACAG TTTAGGCATT TGTCAAACT CATGGAACCA  
TTCATCCAAG TCCTGTGCAT TTTACTGTGT GAAAATTATA TCTCGACTTT TTTCAAAAAA GGAAAAATA CTTAATTATA  
ATATAGCAAT TATGNATTAA AATAATCCN TTATGTAAAA ATATTTTATT GGNITGGTCA AGATTATGA TTGCAAAACCA  
CC

SEQ ID NO:1572: (Length of Sequence = 417 Nucleotides)

CTACCAGCCC GTTTTCACAA CTAGCAGCAA ATCCTGAAGC ATCCTTGGCC AACCGCAACA GCATGGTGAG CAGAGGCATG  
ACAGGAAACA TAGGAGGACA GTTGGCACT GGAATCAATC CTCAGATGCA GCAGAATGTA TTCCAGTATC CAGGAGCAGG  
AATGGTTCCC CAAGGTGAGG CCAACTTTGC TCATCTCTA AGCCCTGGGA GCTCCATGGT GCGATGCCA ATCCCTCTC  
CTCAGAGTTC TCTTCTCCAG CAACTCCAC CTGCCTCCG GGTATCAGTC ACCAGACATG AAGGCCTGSC AGCAAGGAGC

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GATAGGAAAC AACAATGTGT TCAGTCAAGC TGTCAGAAC CAGNCCACGG CTGCACAGCC AGNGTATAC AACAACATGA  
GCATCACCGT TTTCCAT

SEQ ID NO:1573: (Length of Sequence = 368 Nucleotides)

CAAATAAGTT AGAAACATGA AAAATTCTTA GAACTTTAGA TGAAAAATTA AATTTACTAC TAATACCCAC CTGCAATAAT  
TTCCCGTAGT TTGGGATCTA GGTTFACAGT GCATGGCAAA AAGACTTTTA CATCTCGAGC CACAAGAACT GGGGTCCTTG  
AAGACAAAA CACTTCAAAA TTTCTTATAT CTCCATCAAT TTCAAGAAGT GGCTCAACAT CCTTAGTTGT TGGAAATATC  
TTTGATATTC TTTCGTAGAT GGTTTTAAAT GTCATTTGAT CTGGAATACC TTCAGTCTCT TCCAAATATA ATATGAGNCA  
TGAAGTCCGG TATGGCCACT GCTCAGTAAG GTTGATCCCG CTAGCAAG

SEQ ID NO:1574: (Length of Sequence = 397 Nucleotides)

AATTTTAAGC AAATGTTATG TTAAAGACT GTTTTGATGA AAACTTTATG AATTGAGTTA GTAGCAGAAT ACATAGCTAA  
ATGTACTTIN CTACAAATAG AATGAGATAT TTGATTTAAA ATATTNCTTT CCTCTTGAAA TAGGATGTTA GATAGGGACA  
TCTCATTTTA CCTATCAAGT TCTGAGTCTT GCTTTAGAAC TACTTCTTTT AACTTAATTN CATGCATACA CTGGAAGACA  
ATAATATGGC TTTTAACTG CATTATCTTT AGTTGAACT GATGGAGAAA CAAAAATACT GCTTATACCA TATTGGGTAC  
ATGCTGAATG TTTTAAAGA CTAGCCAAAA CTGACATTTT TTAAATTAATA ATAAGATGTT TTAGTTTCAA ATTAGAG

SEQ ID NO:1575: (Length of Sequence = 296 Nucleotides)

GGACTCAGCC TTCCGCGGCA TCTGCATGAT GATCGGTGTC AACCCGGGGG GCGTTGTGCA GGTTGGGGCA GCTGGGCTCT  
NAGGGCAGGC GCGGCNCTG GGCTCGGGCG GCCCTCACC TGGGATCCGT CACGTTTCAG GACTTTATTT TCTTCTTCAA  
TGNITGAGCC TCCTGGGTGA GCCCGAAGAT NACCTTCGGG ACATGTTTTA TAAGGTGAGG CTCTGTCTGG GCCCTGATCT  
AGTTCCGGGA GCAGGCAGGA NGTGAGACCA TCTGGTAACA ATNGGGGCTN GGGATT

SEQ ID NO:1576: (Length of Sequence = 289 Nucleotides)

CTTTATGAAG TAGTAATTC TGAGAGGTGT GCTGGCTGAA AACATAATAG GTTCTGGAAG AGCCAGGTAA ATGCCTGGNT  
TTAGACATGC AGGGGTTAAT CAAAATAATT TAGGAGCGTT TTCAGCTGGT GAGCCTCATA TGGGATCTTC GAACCGTGG  
CGAGAAGAAA ACCGGTGTIT AGGNAGCACC AGGCACAGTG CTCGGAAGGG AGAGGCTNGC CGGCCAGTGT GCAGCTCAGC  
TNTTTCGAGG ACGGAACCG CAGCCTNGCT GINTCCAGC AGACCCAGG

SEQ ID NO:1577: (Length of Sequence = 320 Nucleotides)

CAGACTCTAC TCAGATTTCC CGCCTATGCC CCTAGGACAG AGCTGGAAGG GAAGGAGGCT GGGCCTATTT AGTCATAATG  
CCTCCCCACC AGGTCTAGCT TTCAATCATC CATGAACCT CACCAAGGG CCAAGAACTG AGTTCACTGC ACCCTGGACC  
CCGTGTGAGG TAGGAGAAGT AGACGTGGG AGCAAGGTTT CTCTCCTAAT TTNTTGCAT CCCCTCAGTG CCCAGCACAG  
CTCCGGATAC AGGGCAGGTT CACAGTCAGC GTGTTCACCT GGNCTGTGT ATGCACCTAA GGAAAAGNCT CAATTTTCTT

SEQ ID NO:1578: (Length of Sequence = 217 Nucleotides)

AATCAGGAGA ACTGTTAGAG CCATACCAGA GAAATCACA AGAAAGGCAG GACTGCAAAG NCTAGTGA GGCTGTGAGA  
AAAGGTAAAC CCTTCTTAA GCTCATCTGC CCCTTTAGIT ACCACTGGCT GTCTACTCC TGGATTTATG TGACTCCCTT  
AGCTATACTT TCCANCCCC CTGGGATGTT CCCACTCAT CCTATTCACT CACAAAG

SEQ ID NO:1579: (Length of Sequence = 375 Nucleotides)

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TTGGTCTCA AGTCTATTT TAAAATTTG TCAATTAGAG GACTCTTGGT TCTCTTGGT GACTCATTCT CTGCTGATTT  
 GTTCTCTGTA CTTCAGCAA ATAAAGTGCA GTCATTGAGA ATGTCCTGT GTCACGTGA TGTATCAAGG GATCTTCATG  
 TTAATATCTG TTTCTCTGAC AACTGTGTTT TATACTTTGT ACTGTAGCTT TCATTGGAGA AGCCCTGGGC TCATAAGAGT  
 GATTGTGTG GGCATTTCTT TATGGAACAT AAGCTTTTGA AATATACTTG AGGTAAATAT TCATGGGAGA CATCCAAATG  
 CAGTAATGAG AGTACAATGA AGACAGCATT TINGACTTTG GAAACCTGAG TTCAA

SEQ ID NO:1580: (Length of Sequence = 325 Nucleotides)

TCINCTGATG CACCCATGAG AGGGGAGACA GCACTGTCTG CTCTCGCAGT TTTCCCTTAA CACTCCCTTA TCTGCAGACT  
 TAAACTAGGA GCCCTGGCA GAGTCTTACC TCCAGAATCA CAAAAGTGTA GAAGGAAAGT GAGAGACATT GATTGACTTT  
 ATATCTGACT TACTAGTTTC CTAAGGCAGA GATTTTTTAG AAAACTGCCT GGCTTGCCG AGCCAGGAT AGATAGGGAT  
 GGGTAAGAAG CCTTINAGAA TGTGGCAGTA TGTGGCTTNG ACTTCAGACT TGTGAGATTA GGGGTTTTAT AGGGGTTTTT  
 TTACC

SEQ ID NO:1581: (Length of Sequence = 402 Nucleotides)

GCAGATCAAG AAAAAGTTTC AGCCAATGAA CAAGATCGAG AGGAGCATAC TACATGATGT GGTGGAAGTG CTTGGCCTGA  
 CATCTTCTC CTTTGGGGA GATGATGACT GTGCTATGT CATGNTCTTC AAAAAGGAGT TTGCACCTC AGATGAAGAG  
 CTAGACTCTT ACCGTCGTGG AGAGGAATGG GACCCCAAGA AGGCTGAGGA GAAGCGAAG TGTAAAGGAG CTGGCCAGA  
 GGCAAGAGGA GGAGGCAGCC CAGCAGGGC CTGTGGTGGT GAGCCCTGCC AGGACTACA AGGACAAGTN CAGCCACCTC  
 ATCGGCAAGG GAGCAGCCAA AGACGGAGNC CACATTCTAC AAGGCCAATA AAGACCTACG GCTTTTTTCC CNTGGCCAAT  
 AA

SEQ ID NO:1582: (Length of Sequence = 286 Nucleotides)

TCTTAGTTGA TTAACAACAA TAATTGAAAT AAAAAATTAT GTTTATNCTT ACATGTATGC CATGTAGCAC TTTAAGGAGA  
 TGAGTTTATG AAATTCATGA ATGAGAGGAT GATGTAAGTT TAAAAATCAT TATTTTAGTT GCTTTATTCT NCTATTTTAA  
 ATTCAATAAT AACACAGGTG GCCTGTATTT TGAAAAGAGC CCTTCTCTCC ATTTGANCCT TATAAAGACT GAGGCAGTAG  
 GTGTAAATA TTATCTCCAC TTTATATTG AAGGAAATGG GGGCCA

SEQ ID NO:1583: (Length of Sequence = 323 Nucleotides)

CTAATTTTTG TATTTTTAGT AGAGATGGG TITCACCATG TTGGCCAGAC TGGTCTCAA CTCCTGACCT CAGGTGATCC  
 GCCTGCCTTG GCCTCCAAA GTGCCAGNT TATAGGCATG AGCCACCAG CCTGGCCTTC CAGTTGTGAC CTGTTAGGA  
 TACTGCTTTA ATTCATTTTC CCATTGAAA TAAGCATGAA AATAACTGTG CAGTCATAAT TGTGGTATTT NCTGTAAGG  
 AAAGTGGCAG GGCTCTGAGT GTTATCGGG AGACCTAACC CAGTTCAGA GGGGAAGTCA GAAGGCTTAC TNCCCAATGG  
 GGG

SEQ ID NO:1584: (Length of Sequence = 301 Nucleotides)

AAATACTTGT AAATCACTTT ATGTTCTGA GTAAGGAAGT AATGAAACAT ACGTACAAGT AATCAGTAAG ACTTGTTAGA  
 CAGCTGTTGT TCAGGATGCC TTTAAAAGG CTGGTAATGC AGTTACATTC TAACAGAGAA GTCCAACTA CAGGTAAAAA  
 CTACGGCTTG TACTGTGAAA AATGTGCAGC TTTTCAGTTA TAAACTAGT TGAACACTGG TTTACAAGGT AATCCGTAGG  
 AACAGAGAGA CTGTAGGAAA ATATTCCAGC ACTTTGAGTT GTGTTTGGC AGCAGCATTT G

SEQ ID NO:1585: (Length of Sequence = 328 Nucleotides)

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AAATACTGAT TTCAGACCTT CTGCTCTAG AAGTCAAAAT ACTTTCCTCC TGACAAGAGG TAAGATAAGG TAGAAAATAG  
 AAACACTGGA AGAGAGATCT GGACTCTTAA AGCTGTGATG CCATAGTGTA GTGGGGGGGG GTGCGTGAGG AAGTCAGGAA  
 TGCCGCAATG TTAAAGGGAA AGGGAAGATG GAGCAAAGTG AGTCCCAGGG CCAGCAGGGG GCCAGCCTTN TTTGACAGGG  
 GCAGGGGAGA AAAGGCCAGA CTTCCTATAC ACATGCTAGA GGGGAGGGCT AGTGTGAAG GGTAAATAGT TGAAGGAGTC  
 CACGGGCT

SEQ ID NO:1586: (Length of Sequence = 256 Nucleotides)

GGACTATCTG TATGGCAGAC TCATCAACTT TGAGAAGAGG AGGAAGGAGT TCGAGGTGAT CGCCAGATC AAGCTGCTGC  
 AGTGGGCTG CAACAACCTAC AGCATTGCGC CAGATGAGCA ATTGCGGGC TGGTTCGGG CCGTGAGCG CTCAGCGAGA  
 CTNAGAGCTA CAACCTGTG TCGAGCTGG AGCCCCATC CGAGTCAGCC AGCAACACCC TCAGGACCAA GAAGAACACA  
 GCCATINTCA AGCGCT

SEQ ID NO:1587: (Length of Sequence = 371 Nucleotides)

GGATTCTACA GGCATAGACT TACACGAGTT TCTGATTAC ACATTAAAGA ATAATTCCAG GGACAGGATG ATACTTTTGA  
 AAATGGAGCA GGAAATTATT GATTTCATTG CTGACAACAA TAATCATTAT AAAAAGTTCC CTCAGATGTC ATCGTATCAG  
 AGGATGCTTG TCCATCGAGT GGCAGCTTAT TTTGGATTGG TTCACAATGT GGATCAAACA GGNAAATCTG TTATCATCAA  
 CAAGNCCAGC AGCACCAGAA TTTTACCAGC CAGTCTTGTC TNGTCAACAG GGGNTTCCAA GGGCTAATAG GAGTNCAGCA  
 GCCCACCTCA GAGTCAGACG TGGTTAAATN ACCCCCAAGG GACTCCGGTG C

SEQ ID NO:1588: (Length of Sequence = 314 Nucleotides)

CACACAGGAT TCCATAATAC TCCTGCTGIG TTCGAAATAT TTGTAATCA CATGGGATTA CTGAACACTA CTACGAGATT  
 CTGAATGTTT GTNGCTCACA TAGGATTCOA AAATGCCCCC GCTGTGTTCT GTTGTCCCT CACATAGGCT CACTGCTGCT  
 GGGTCTCAG TGTTCTCAC TCACATAGAA TTCCAGNACA CTGCGAAGAA TTTCTGAATG GTTTCTGTGA ACATAGTATT  
 CCAGCACACT CTCGCTGTTG TTGAATGTT TGTCCCTCAC ATAGGATTCC AGAACACTTC TGCTGATGTC TTGA

SEQ ID NO:1589: (Length of Sequence = 256 Nucleotides)

GAOGAGGCAC CATGCGTGAN ATCGTGCACA TCCAGGNGG CCANINCGGC AACCAGATCG GNGCCAAGTT TTGGGAGGTC  
 ATCAGTGATG AGCATGGGAT TGACCCCACT GGCAGTTACC ATGGAGACAG TGATTTCAG CTNGAGAGAN TCAATGTTTA  
 CTACAATGAA GCCACTGGTA ACAAATATGT TCCTGGGGC ATCTCGTGG ATCTGGAGCC AGGCACGATG GATTCTGTTA  
 GGTCTNGACC ATTGG

SEQ ID NO:1590: (Length of Sequence = 313 Nucleotides)

GGCAACAAGC CAAGTAGCAA AGATATAAGC AACATCAAA TGGAGCCTGA AATATGATAA GAGCATACT GCACCTTAAAC  
 AATAATTTTG ATACTGGAAT GATTATTTCA GAAGCAATAT TTTTNCIGAA AAGCATGGT CTTCTGTACA GAAAAATAAA  
 AAAGTGAGCT GCCACTCATA GTGAATTAAG AGCTGTGGG TGAAAGGGTC TCTTTTATAG CCAGTTTGAA ATTTTTCATA  
 TAATAAAAAC AGTATGTAAA TATTATATAT ATATACACAC ATACATATAT ATGCATATAT GTACATATTT CTG

SEQ ID NO:1591: (Length of Sequence = 296 Nucleotides)

TTTNGTCTC CGGCCTCACA ATTCAGCGAC TGCAGCTCG CCAAGGCCAG GGGAGACCTG GGTGCTTCA GCAAAGGTCA  
 GATGCAGAAG CCATTGGAAG ACCCTTGGTT TGGCGGGCGG ACGGGGGAGA TGAGCGGGAC AGTGTTCAG GATTCGGCA  
 TCCAGTTCAT TGTCGCAAG GAGTAGGATT NGGGGCCAG GCCTGGCCTC GGGGTTCCCC CGCTGCCTGC TGGCCAGTGG  
 CNGAACCCCC CANTNCTGC CACTNTACA CAGTATTTAT TGTTACCAA ATGGCT

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SEQ ID NO:1592: (Length of Sequence = 299 Nucleotides)

GGAATTCCCA AATTATGGGT AGTCCAAAAG CCAAAGGCAA TGTGAGGAAG GACACTCCCC AGATAAGAAC AAAACACAGAA  
 ATCTGTATGT NCTATGTGTT ACACACAGTT GCGAATAATC AGATGTACAC ACATGATGCA AAGGCACGCC GCTACACATT  
 TATGTGATAT TCAGACATAT GTTCAAATAG AGGAGGTGAA TATCTTTTAA TAAATACAAT TTAGCAAGTA CAAGAATGCT  
 GATCAGCTGC AGCTCAAGAG GAAAGGGGGG AAAAAATCTT ATGGGAAATT ATTAATACT

SEQ ID NO:1593: (Length of Sequence = 378 Nucleotides)

CCAGTTTGGT GATTCTNTTC TGTGTCTGCT GATCTATTGG CGTGAGAAGC TGAAAGTGAC CAGCCAACAG CCATAACTTT  
 ATGTTTAGTG AGACTCATAA TGGGTCTCCT GCTGGAAGAT CTCCCCTCTA AGANTCAGTA ATTCTAGACC TGCAAAGTTT  
 GAAGTTGTAA GCATGGGAAA CACAAATTC CCAATAGGT CCAGATAGTG ATAGAGAATA AGACACTTAC TTGCCTACTT  
 CCATTTCTCA GCCCAGATAT TCTACCTATA GTGACATGC CCATGCAATG GGCTATTGGG TTTGAGGTAT ACATTGCACG  
 GTTGAAGGAC AGTGCTCAT CCTGACAGG GTGCCCTTIN CCAGTTGGCA CCACAGCT

SEQ ID NO:1594: (Length of Sequence = 353 Nucleotides)

ATTTTTCNCG GGGAGGGTGA TGTAGATGAG AGTCTATGAT ATAAAGCAGT AAAAAAATG CTGTGTATA GGGATGCAAT  
 ATTTTCGGTG TAAGGAAGAG GTTTTAATTC ATAAATAGA AAACAGGTG GAGAAGTCTT TAGGAAAGGG ATACCTTTTG  
 GGTGCGCTTT TGAAGGAGAA GTTATACCC AGGTTCAGC TGAAGGGCTA AGTGAGTAAC TGAAAGGGCT GAGCTATTTG  
 GATTACCATG AGGAATTTGT GATGGCTGGG AATGTAGGT GTGTGACCAG ATGTGGAATC ACAGAGGGAG CCCACAGAGG  
 AGCTTCGCA CATAANCTAA AGAGTTTAAT TTT

SEQ ID NO:1595: (Length of Sequence = 343 Nucleotides)

CAATATATTA AATCTATTTT GTAGCTGGAC TTCACTTACA ATGTAACAGA ACATTGAATA TTAGATTCTG AGCATATTCA  
 TGCAAACITC CACTTTGGTG AAAGTGATGA CAGTGGAGTT CTGGAAGACA ATTTTCTTGG TAAACACCAA GTTTTGCACT  
 TTGGACTATG CTCTCAAGAT AGAAACTTAC GTGAGTGGA AAAGAAAATG TATAAATGTG AACAAATATT CCTTACCACA  
 CAGAATAACC CTGGCAACAA ACAATATCCC CAAGTCTG GINATTCAAT CCTCACCTG GGCAGGAAGG GTGAAGGAGG  
 CTGCACCTGG GNCACAGCCT TTT

SEQ ID NO:1596: (Length of Sequence = 373 Nucleotides)

TAGTCAGTTA TTGCTGCACT AGAGCTAAAT AAAAGACATA AATATCTAAG GCACTTACTG GAATAAACAT CTTATTTCCG  
 CTAAGAGGTT GGCTAGGGAA GCTCTGCTTC AGAGTATGGG TTGAGTATAA GCCTGTNCCA CATGTCTTTT GCTCTGGGAC  
 CAGGAGTGT GCAGCCCATC CTTTCTCAA GACAAAGCT GAGCCAAGCA AGGACATTTA AAGCTTCACT TCTGCTCACA  
 TCATATCTAT TGGNCAACA TTCCATTGGG CCAAAGCAA TCACATGGGC CAAGTCAAGC ATCAGTAGGT CTGGGGGAAT  
 ATCTTTCTCT CTACTCTTGG ACACATGGGA AAGGGTTATG CATACTAATT CTT

SEQ ID NO:1597: (Length of Sequence = 276 Nucleotides)

GATTGTCCAT ACTTGATTAT TAGTTCTTAA AGAAGTATT CTTAATTCCA AGCCTAATAG CTCTTATGTC ATTAGTTTCT  
 AGTGACAGAA AATGTACTTG ATGAATTTT GTTGACTTTT TTTTGTGCTA GCCAATATGA AGGTTGCCAG TCCCTGCCAA  
 AATCAGCACT AAACTATTT TNCATGAGTA ATAACAATA TATTCTTTT TAAATAGCAC CTTTAACCCA AAAATCTTAA  
 GCCTATATAA ACATTCATC AACANTACAC TCAAAA

SEQ ID NO:1598: (Length of Sequence = 355 Nucleotides)

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TGTATTGCTA ACTGTCTTTG TAACTAATTT ATGTATACNC TAAATGGTAT AGCATGTGAT TTTATTATAG TTGATTAACT  
 TTGTAATTNC TGTAAC TGCA TCGATATCCC AGTCTACCTG GAAAATTAAG TCTATTAAAC ATAGTTGCTG TGGGAGACAG  
 TACTATTGCC AACTGAAGCC TGAATCCTTC ATTTATTTTG TCCCCAGTTA CAGAGTGGAG GTTTAGAGGA GTGGGGTTAG  
 ATAATGCTCA GATTAGAAAT ACAAAGGCAG CTGTCAGATC CTCCCATTTT ATTTGTTTGA AGGAACTGAG GTTGGTAAAC  
 ATCACAAGNG CTAGTTAACT GGTGAGTAGC AGCCC

SEQ ID NO:1599: (Length of Sequence = 313 Nucleotides)

GGAGGTGAAG GACACAGTGG ATGGGCAGAG GNTCCTGGAG AAGAAGGGCA GINCTGCNCT CAAGGACCTC AAGCGGCANT  
 GCATTTGGAG CGGAAACGGG CAGATAAGCT GCAGGAGCGA CTNCAGGACA TCCTCACTAA CAGCAAGAGC CGCTCAGGCC  
 TTNAGGAGCT GGTTCCTCTCA GAGATGAACT CACCAAGCCG GACCCAGACA GGGGACAGCA GTAGCATCTC CTCTTCAGC  
 TACCGGGAGA TCTTTGGGA AAAGGAGGAG CTTCGGCTTG TTCCAGCCAG GTCTTATCC AGCAGNCTN AAG

SEQ ID NO:1600: (Length of Sequence = 277 Nucleotides)

AGTTCACAGA ACTCCAATTC TTTATTAATC ACAGCTTGCT CACAATGACA TACAGGAAAA TAGCACTAAT GAAGAGTAAA  
 TATGCAGGCA GCAACCTTCA GGAGTTGGGA GTTGGGGAGA AACGACTTCA AAACCTCGAT AGGTACTTAT GGTGGGTATC  
 TGGTGATTCT TAGTTGGCAC AAATGCCCTG CCTAGCCCC TTAACCTGGT CANTTTCACA GATGGAGTGT TTTGTTGTG  
 GTGTTGTAG TAGGCAGGAT TGCCTTACAC TGGGGGA

SEQ ID NO:1601: (Length of Sequence = 228 Nucleotides)

TTGAGACCAT CCAGGCTAAC ACGGTGAAAC CCCGTCTCTA CTAAAAATCC AAAAAAAAAA AAAAAAATT AGCCGGGCGT  
 GGTGGCTTGC GCCTGAAGTC CCAGCCACTA AGGAGGCTGA GGCAGGAGAA TGGCATGAAC CTGGGAGGCG GAGTTGCACT  
 GAGCCGAGAT CGCGCCACTG CACTCCAGCC TCGGCGACAA AGCAAGACTC TGCTCAAAA AAAAAAA

SEQ ID NO:1602: (Length of Sequence = 299 Nucleotides)

GGAAGTCCTT TCTAATGAAG AGGGGAGATG TTATCGATTA TNCATCATCA GGGGTTTCCA CCAACGATGC TTCCCCCTG  
 GTTCTATCA CTGAAGAAGA TGAAAAATCA GATCAGTCAG GCAGTAAGCT TCTCCAGGC AAGAAATCTT CCGAAAGGTC  
 AAGCCTCTTC CAGACAGATT TGAAGCTTAA GGAAGTGGG CTGCGCTATC AAAAACTCCC AAGTGACGAG GATGAATCTG  
 GCACAGAAGA ATCAGATAAC ACTCCACTGC TCAAAGGATG ACAAAGACAG NAAAGCCGA

SEQ ID NO:1603: (Length of Sequence = 263 Nucleotides)

AAGGCAAGAA ATTAGCCTTG TTAAGAATTT TAAGTGTAAAT GGAAGCCAT TAGAGGGTTT TAAACAAGGA AAGATGTGAT  
 GTGACTTATA TTCTAATAGG ATTGCCTTGA TTCACCTATG GAGAATGGAT TNNITGGGATC TCAGTACTGG GATACTGAGA  
 TCCCAGGGGG AAAATATCAC TAAGGTGGA ATTGCTTTTC TGCACATTAA AAGCAATTCN CTTTTCTCTT GAAACCTCCA  
 TGTGATGTTA ATTAGGGTAA ATG

SEQ ID NO:1604: (Length of Sequence = 260 Nucleotides)

ATGAAGACGT ACGACTTATT TTGTGTCTT GAACATAAGT NCTTTGTAC ATAAAAATGIG CTATGAATGT TGAGTTTAA  
 ATACTCGAGC GGTGACTCAC GCCTGTAATC CCAGCACTTC GGGAGGCCAA GGCGGGCGGT TCACCTGAGG TCAGGAGTTC  
 GAAACCAGTC TGGCAACAT GGTGAAACC CCGTCTCTAC TAAAAATACA AAGTAGCGG GGTGTCTGG CGTATGCTGG  
 TAATCCTAGG GTTCTGTCA

SEQ ID NO:1605: (Length of Sequence = 290 Nucleotides)

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GACAGACATT CAAACCATGG CAGGTGGCAA GAAGTATCAA ACTACTAGAT CCTTGGGATT GINCTTTGTA CTGGGGTGTA  
TTTTTNCCAA CAATCCTAAA AATCATATGA ATAGAGATAG CAATATATAT CTNACCCATT TGGAAATGCA CAGAGATTCA  
GGAGTGTTC CATAGAAACA GAAGATCAAT GGCTTTTGTC CATTCCCAAC GCCAGNAATC TGTTTTCCTT GACTCTTTTT  
GATCTGTGTT TCTGAATGIN TTGATATACT GCGCCTACTG GGTGTGCAGG

SEQ ID NO:1606: (Length of Sequence = 290 Nucleotides)

CTCACTTGGG TACTACAGTG TGAAGCTGA GTGCATATGG TATATTINAT TCATTTTGT AAAGCGTTCT GTTTGTGTT  
TACTAATGG GATGTCATAG TACTTGGCTG CCGGGTTTGT TTGTTTTTGG GGAAATTTTG AAAAGTGGAG TTGATATTAA  
AAATAATGT GTATGTGTGT ACATATATAT ACACACACAT ACACATATAT TATGCATGTG GTGAAAAGAA TTGGCTAGAT  
AGGGGATTTT CCTGAACACT GCAAAAATAG AACGTAGCAA AATGGCTTCA

SEQ ID NO:1607: (Length of Sequence = 365 Nucleotides)

GCTCCACTGA CCAGCTGTTC CCTGTCTCTC CTCTCCTTG AGCCTCCCTC TTCCCTGAGA CACAATAATA TTAAATTTG  
GCCAATCAAT AACTCAACAA TGGTGTCTAA TAAITGTTC GGTGCGAGGA AGAGGCATAC ATCTCTCACT TTAAATCAAA  
AGCTAGAAAT GATTAAGCTT AGTGAGGAAG GCATGTCAAA AGCCGAGACA GACCAAAAGC TAGGCCTTTT GTGCCAGTTA  
GCTAAGATGT GACTATAAAG AAAAGCTGTC GAGGGAAAT TAGAATGGTA CTCCAGGGGA ACACACAATG ATAAGGAAGC  
AAACAGCCTT ACTACTNGGA TATGGGAAA AGTTTTCAGC TTTGG

SEQ ID NO:1608: (Length of Sequence = 294 Nucleotides)

CTCAGGAAGC CTCTCTTCT TCACCTACCA TTAATACTC TCCAAGCATA GAAATCCCTG GGAATTCGA GAATAACTCC  
CACTATTITA AAATTTATAT TCAGATTGT TTCGTTTCAT AAGACACATC AAACAGGCCT ATACAAAAGG TTTAGGAAA  
GAAACAATG GTGAGTCCG GCCCTCTCG AATTCAGTGG CACCTCATGC AAGTNTAGGA AGGCACGCTG GATCGTCTAT  
CTGATTCCAA AGCTGTCTT TGCCATCTCA TCCCTGGNC TGCCCCCAA CCT

SEQ ID NO:1609: (Length of Sequence = 393 Nucleotides)

CAAAAGCTAA CTCTTAATAA GAAGATGAGG AAATAAAATC AGTCAAAAAG GGAGGAATAT GCATTCCAG AATTAAAGGA  
CCCCGGTCC AGTTTGAGGA GGACTCTGG CCAGATACAA GCCCTTGTA TAATNCTCA GAGGGAGGAG ACCTTATTIN  
CTCCTINGAG GTGCTAGTA TGAAANCTGC TTATTTTGAA ATGTGATTCT AGCCATTATC AGGNGCAACT GCAGATAATT  
CCCATTACA GAGGAATGCT GCTAACAGGT GTGGNGGGA GCAGCGACAN CGNAAAATTC TGCTGTCATA GGTCAAGTTT  
ATGTTGGTTT TCTTTGAAA TCAAGGGGTA GAAAATTTCA TGCCTCTAGA GGAGAGAGAG GAAACACATG AGG

SEQ ID NO:1610: (Length of Sequence = 464 Nucleotides)

TGCTGTATT TATTAAATG CCTTACTAC TTTAGATGG CCATACGTTT TCAAAAGCAA AGACCTAGTA AGCCATTGT  
GTTCAATTGC TAAGCTATCT TAGGTACAGG TCCAGATTAT AAATGTTACC TGCTAATCAG AGAGCAAATT TTAAATTAA  
TCACTGTAA ATCCACATTA AAAGAAAAG AAACCTTAGAA AAACACATAA ATTTCTTTTG TGATCCCACT ATTCAGGAAA  
ATCCATTGAA AAAGCAGATG ACTTATCCGT GTTAAATTTT TAAAGNCCCT ATTTAAACTG TCATGTAAAT TCTNATTTAT  
CTAATTTTTT AAAACACATA TAGNNTTTIA CTCTCCAGTT CCATAANIGN CTCANTTCTG GTGANGGTCA TTACAACAGN  
CATTACGNGG GCATATCGGN NTAAAANGGC CNTGCGTCC TGNATCNGAG GNGGGTTAA GGTC

SEQ ID NO:1611: (Length of Sequence = 465 Nucleotides)

ATAATTATAA GAAAGAGAA TTCTACAATG TAAAACCTT TAATATAAGC TGTTTTAATA ATTGGAAAAC AGAATGANT  
NIGTTTTINT TTGTCATGCC CAATTATTC ANCAAGTTT TATTATAAC TTGCTACATG GTAGGCACAG CTGTAGGTGT

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TGGAGATATA GAGGTAAACA AGTCTGACAT GATCTATGCT ACCACGGAGT TCTTATTTTC AAAGTGAAG GTAGAAAATA  
 AATAAAATG ANCTAGAAGA GCAAAGTGCC TCTGAATGAG CATGCAGANG CATGTTTTCA AAATGTCTGT GNGTGGGATA  
 AATAGATCAG CAACACACCA GGCCATGCAA TTTNGCAGCA AATCACTTCT GCAGTCTAGC TGCTGTTTTT CCTACTCTGG  
 AATCATACTC CCCCCTTCGG TCATCTNTGC CAGTTTCNCT GNGCTTCACC CTACCCCTCN TTTIN

SEQ ID NO:1612: (Length of Sequence = 458 Nucleotides)

ATGAAATGA ACAAACTAA AGAGAAATGT TCTTACCGTT CCACAGGAAC CAGCTTCTTC CACTGGGCCA CTAGGTCCCT  
 GGCAAAGCTT CCAACATGCT CGTGTTCG CAAGCTATTT ACTGTTTTCC CAACCCAGT CTCCTAAAT TTGACAAAGT  
 AATTGTTAGA GGGGTCTGGA ACTAGGCTAA CGTTTTCTA AAGAAATAAG GCTTCTACT TTGAGAACT CAACAAGCAA  
 TACTTCCTTC CTACAACATA CCCTGCAAAT CTTAACACTA AATTACTTTG TGCTATGNC CCAATCTCT AATGACACAC  
 AGTAGCAAAG NGTACCAAGT TCAGAACTTT AATAACAGNG GTNATTAGGG CAGGIGTTAG GGCCTAGNT AAGNGCTTTG  
 CATCAGTTCT GGATCAGNCT TTTAAATAAC CCCTTAAGNG GGGNTNAGNC CCTTTTTT

SEQ ID NO:1613: (Length of Sequence = 322 Nucleotides)

ATGTGGAGAT TTGTTGTGGG CTAGGGCAGT CCAGAGGAGA GATATGTGGC AGGACAAGTC TCTACCCTAT ACAAGTNCCT  
 CCGGCAAGCC CTCAGCATAT GACATAGGCC CAGAGAAGGA TGCAAAGAT TCTGGTCATA AATTGTTTTT AAATATCAA  
 TAAATCATAT GTGCATATG ACAACATGC CTTCACACT GAGTAAACC AGACTCACCT TCAAATATAT CAACAGTTT  
 NTCAAGGCC GTTAAAAATC AGGCATCGGA CCTCTGGNIN CGAGAGCTGG TTINATGGG AAGTTAGATC AACCGTCAT  
 CT

SEQ ID NO:1614: (Length of Sequence = 280 Nucleotides)

AGTATCAAGG GATAAATAT ATTTTAAIT TTGTATTCA CTGAAAATT GTAAGNCCA TTTTATAATG TATGCTTCG  
 AAAATAAGTC ATGGAAGCCC TGAAAAATTA GTCAATTCAC TAATCAAAGA AACATATATT AAAGACCTAC TATGCATGAG  
 GCACCATGCT AATTGCTTTG AAGAAGACAA AGTTGAATTA GACAGGNTC CCGTTTACAA GNTATTTTACA ATGCAAAGG  
 GGATACAAGA CATATAAAG GCTATGGAAC TGCCCTTCG

SEQ ID NO:1615: (Length of Sequence = 393 Nucleotides)

GCGTGGTGGT GCGTGCTGT AAATCCAGC TACTACGGAG TCTGAGGCAG GAAAATCCCT TGAACCAGG AGTCGGAGGT  
 TGCAGTGAGC CGAGAGCAGC CCACINCACT CCCGCTAGC GACAGANIGA GACTCCGTCT CAAAACAAA CAAAACAAA  
 CAAAACCA AAAACACTGG GAGTCCAGT TTGTAGGAAA TCATTAAGAT TTTATTTT GAGCTCCAGA ACGAGTGAGG  
 ATGACCTGAT AATTTTGGTT TGGCTCAGGT TGTAATGTGT TTCTGTTTTG CTCGATGACT ACTAGAACAG TTCTCAAACT  
 GTGTGGTGGG TAAGAATCAC CTGGGGACTT TGACCAAGTN ACATGTCTAC AACACCCGGC CCTACAGGC TCT

SEQ ID NO:1616: (Length of Sequence = 353 Nucleotides)

CCACCCAGC CTCCTGGAG CTATCCCTTT CTATCCCTT CCATCCAGCC CCTGGCCACC ACCATTATAT CTATTCTGGA  
 ATTCCACAG GAAAAGCAGG CACTTTATAA ATCAGCGAGG GATTCACGGC GAAATGAGAC TGTTCGTGAG TNATGGCGTN  
 CCGGGTGTCT TGCCGTGTCT GGCCGCCGNC GGGAGAGCCC GGGGAGAGC AGAGGTGCTC ATCAGCACTG TAGGCCCGGA  
 AGATTGNTG GTNCCGTTC TGACCGGNC TAAGTCCCT GTCTGCAGC TGGATAGCGG CANCTANCTN TTCTCCACTA  
 GTGCAATCTG CCGATATTTT TTTTGTGTTA TCT

SEQ ID NO:1617: (Length of Sequence = 227 Nucleotides)

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TTTCTTCCAT GCAACANTCT GNAGACTTAA GTGGCTTTCT NCTGTACTNC CATAGAACCC ACCCAGTACA TACCTCCAGT  
 GNGGCACTGA TTTTATGCTA TACATATGAC TGTGTGTCA TCTCTCCAC CAGACTGTGA GTCCCATGG AGTAGGAAGT  
 AAATTTTNTT CAACACTCTG TCTCATCAC CTCGTGTAGT ATCTGTACA GAGTAGATAA TGATTAA

SEQ ID NO:1618: (Length of Sequence = 362 Nucleotides)

GGAAGGTTTT TAATGCATGA NGTATACTTG TNATCCTGGA GGTTCGAAAA GATTCAGTAA AGATAAAGTT TGGCAAAAAT  
 GATTCTCTCC CTAGGATTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTITGT  
 CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCTCT CAGCCCTTGC AACTGTTTCC TATGACTTTG GACTTGGCCA  
 TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAATGTGCT TTAAGTGCAT GTAATTAGGT CAGTCCCTCC CTCCTTGAGC  
 TTCAACTCTC CACCATGAGG ACAACATTGC CCTCCTTCTT GG

SEQ ID NO:1619: (Length of Sequence = 344 Nucleotides)

GCAACCTCAT CCCAGTTTCA AGTATTTCTC CTGCCTCANC CTCCTGAGTA GCTGGGATTA CTGGCGCACC ACCACACCCG  
 GCTAATTTTG TATTTTITAGT AGAGACAGGG TTTCGCCATG TTGGCCAGGC TGGTCTTGAA CTCCTGACCT CAGGTGATCC  
 ACCCACTTCA GCCTTCCAAA GTGCTGGGAT TCCAGGCATG AGCTACTGTA TCGGCCCAA TCTTCTTAA GTTGTGTCTG  
 GCCTTTGGCA GAAATAGCCA CAAAGNCAGG GTAGGAACGT TTTACTCTTC AAGTATGAT GGCATCCGAT AANCTTTTAG  
 AGGGAGGTTT TTAAAATGCA ACGT

SEQ ID NO:1620: (Length of Sequence = 379 Nucleotides)

GCCAGCCGAA GCTCCTCAGG CTCCACCTT CTACAAGCTC CTTCTGCTCC AGCCCACTC ACCAGGCCCG AGTTCACCAC  
 TAGCACCTTC CCTGGGAATN ATCTCCCCCT GGTGGCTCT TTTACTTAT TCAGCTCAA ATGTATCTC CACTGANAGG  
 CCTTCTCTGA CTTGCTGAGC TTGATTCCTT CCCTCCCA GINACATTAC TCCGTGTAT GGTACCCATC CTTGTCTCTT  
 TAGCTGTITT TTGTCTGTAT TGGCTCTCC ACTAGACTGT AAGCTGCATG AGGGCAGGG ATGTCTGTIT AATNCCAGTT  
 GCTCAGGATA GTGTATGGCT CGTGATAGAT GCCTAGNACA TTTTAAATG GGGACGGAT

SEQ ID NO:1621: (Length of Sequence = 283 Nucleotides)

GATTTGGGG CTCGGGAGG CAGAGAATCT CTTGGGAGTC TTGGGTGGCG CTGGTGCAAT CTGTTTCTC TTGATCTCAA  
 AGGACAATGT GGATTTNGGG ACCAAAGGTC AGGGACACAT CCCCTTAGAG GACCTGAGTT TNGGAGAGTG GTGAGTGGAA  
 GGGAGGAGCA GCAAGAAGCA GCCTGTTTTC ACTCAGCTTA ATTCTCCTTC CCAGATAAGG CAAGCCAGTC ATGGAATCTT  
 GCTGCAGGAC CTCCCTCTAC TACTCTCTGT CCTAAAAATA GGG

SEQ ID NO:1622: (Length of Sequence = 356 Nucleotides)

TTAATTTTAA AGCAGATAAT ATTTCAAATA TTTCTTTGA AATAGACCAT TTGTCTGCC TTGAAGTATG TTAGTACATT  
 TTAAGAAAGT CAGTGGGTTA AGGAGTCAGT GCTGTAGTA TTCACTGCTA AAACACTTCC CTTCTACCTA CCTAATAAAA  
 TGAGGGGCTC AAGAGAAATA TTTCTAATTC TCTAGCGACA TGGCTAATTT TTTTPTTTAA TGTATTTTGT TATTTTITAGT  
 ACAGATGGAG TTTCACCATG TTGGTCAGGC TGGTCTCAA CTCCTGAGCT CAAGTATCT GCCTACCTCA GGCTCTGAG  
 TCACTGAGAC TGTAGTTGTG TGCCACCATG CCAGGT

SEQ ID NO:1623: (Length of Sequence = 361 Nucleotides)

TTTGAGACAG AGTCTCGCTC TTTCGCCAG GCTGGACTGC AGTGGCACTA TCTCAGCTCA CTGCAAGCTC CACCTCCCGG  
 GTTCAGCCA TTCTCTGCC TCAGCTCCC GAGTAGCTGG GACTACAGGC GCCCGCCACC ACGCTGGNT AATTTTITGT  
 ATTTTITAGTA GAGACGGGGT TTNACCATGT TAGCCAGGAT GGTCCTGATC TCCTGACCTC GTTGATCCGC CTGCCTCGGN

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CTCCCAAAGN GTTGGGATTA CAGNGTGAG CANCCGTGCC CAGCCGINAA GTTAAGATAT TTTAAAAANA TCTCTGCAAG  
TTGAGGAAGT NITTCAGGAC TCTTCCTGC TTAGTCTCAC T

SEQ ID NO:1624: (Length of Sequence = 350 Nucleotides)

CTTTGTGAGC TTTTGTACCT GCGGGATCCG AGCCAGATTG ACAACAATGA GCCCTACATG AAGATCCCTT GCAATGACTC  
TAAATCACC AGTGCTGTTT GGGGACCCCT GGGGGAGTGC ATCATCGCTG GCCATGAGAG TGGAGAGCTC AACCAGTATA  
GTGCCAAGTC TGGAGAGGTG TTGGTGAATG TTAAGGAGCA CTCCCGGCAG ATCAACGACA TCCAGTTATC CAGGGACATG  
ACCATGTTTN TGACCGCGTC CAAGGACAAC ACAGCCAAGC TTTTGTACTC CACAACCTCT GAACATCAGA AGACTTTCCG  
GACAGAACGT CCTGTCAACT CAGCTGCCCT

SEQ ID NO:1625: (Length of Sequence = 333 Nucleotides)

GTCTTCTGTG AGACAAAGAA ATTATAAGAA TGGCAGAAAT TATTACGCAC GTTCTACCTC TATAATTCAC GTTCCATGAA  
TCAGTACTTC ATTTCTTTTT TATGGATGAA TTAATATTCC ACTGTACAAA TATACCACAT CTGTGTTTTT CATTCGTCTA  
GGTTAAAAAA TTTTATTTTT TATTTTTATT TTTTGTAGA GACGGGATCT CACTGTGTTG CCCAGGCTGG TCTGACCTC  
CTGGGCTCAA GTGATCCTCC CACCGTGGCA GTCCAAAGTG GGTAACTGT ACGCTGGTCT GAAAGACCTT GCTGAAGAGA  
GAAGAGGCAA GCT

SEQ ID NO:1626: (Length of Sequence = 314 Nucleotides)

GACTGTCCGT GGACACTGGT TTTAAGCCC AAGAACTGAA TATACAGTAG CAGTGCAGAC TGCCTCAAAA CAAGTTGATG  
GTGATTATGT TGTGCTGAA TGGAGTAAA TTATAGAATT CTGCACCGCA GACTATTCAA AAGTTCATCT AACACAATTG  
TTGGAGAAGG CTGAAGTGAT TNCAGGACGC ATGCTTAAGT TTTCTGTTTT TTATCGTAAT CAGCACAAAG NATATTTTGA  
CTATGTTCCG TAAGNTTCAA AATATATAG TGATTGTITT TACTAAATAT AGTTTCAAAT TCTAGGCTCA GGT

SEQ ID NO:1627: (Length of Sequence = 375 Nucleotides)

CCCTGGGCAC CTGGTACCTG GGGACCTACA AGGTGGTGAG GGAAGGGTAC GAGTACATTC CTNTCCCTC TGACCTGGGC  
GCTAGAAGGG CAAAGAACCC GAGCCTGCCA GCTTGGCTC CTCCACAGC CTCCCTCGGA GGCATGCCAT GCCAAGCACT  
CTTCTGTCT CTGTTATGA ATAAAGAGA TGGATGGCT TATTCMTATA GAGAAGTGAA TTTCACTTAC TCCCTGGCC  
CGAAAAC TAG ACCAATGAG GAACTGTTTT AGTCATCAA ACTGTTATAT TTATTTTCAA CAATGAAAC AACACAACAA  
AGTGGAGTCA ATCCACTAAT TTTTTTAAAT CTAACACAAT TGTTTGACA ACAAT

SEQ ID NO:1628: (Length of Sequence = 434 Nucleotides)

TGCACAGGCA CACCTCCACT CTTTATATCA TTTCTCCAT CTTTCATTC CCATCTGTAC CTCCAAAAT TTGCTATGAA  
TCTAATTCAT CTTTGTCTC TCTCTCAT GGGTGCCTT GCTCTGCCA GTCTTCTTC TCCTGCCCA CCCAACTTC  
ATGAATTAGT CTTTCTCCC AGGAGCTCTG ATTTCTAGAC TGCTTTGAAA ATGCTGTATT CATTTTGCTA ACTTAGTATT  
TGGGTACCT GCTCTTGGC TGTTCTTTT CTGGAGCCCT TCTCAGTCAA GTCTGCCGA TGTCTTCTT TACCTACCC  
TCAGTTTTCC TTAAACGNG NACACAAC TCAGAGAGTGT TAAGNATAAT GTTACTTGGT AATGTGTATT TATTGAGGAT  
TGTTGTGCTA AGAATGNGTA GGTAAATA GGGG

SEQ ID NO:1629: (Length of Sequence = 341 Nucleotides)

CCTCAAAGCT GCAGGGAGGT GGGGTGGCC GGCAGACAGG GTGGGTCCG CATCCGGTAC CAGTGACAGC AGCCTCTCCT  
CTCCACGGT GTGCTGTGT TGGGCTGTG GCCAAAGTGT TTGCCCGCC CTGACTGTN TCCTTCGGGA GCTGCCGAGG  
ACTGCAGAGA GGGCCTGGCT TGTCCTCTT AGGAGCAGCT GGGNNGTGT CTGTCTGCA TCCCTTCA ATGGTTGAA

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ATAATGATTC CACTGTGCAT GAACACCATG AAGGTATCTT GGCAGCCAGA GTCACCTCTG TTCCCGAAGT GGGAAACCTN  
GGGAGGGTCC TCAAACCCC T

SEQ ID NO:1630: (Length of Sequence = 380 Nucleotides)

CATAAAACCA TCCTACGATG TGCTGCTGCT GCTGCTGCTG CTAGTGCTCC TGCTGCAGGC CGGCTCAAC ACGGGCACCG  
CCATCCAGTG CGTGCCTTC AAGGTCACTG CAAGGCTGCA GGGTGCTCC TGGGACACCC AGAACGGCCC GCAGGAGCGC  
CTGGCTGGG AGGTGGCCAG GAGCCCCCTG AAGGAGTTCC ACAAGGAGAA AGCCTGGAGA GCGCTCGTG TGCAAATGGC  
CCAGTGACCC CCAGACGGG AAACCGGGTG GCAGGCCAG CCTGGGCCA GGCATGGAAA CGGACAACCC CTAATCGCTT  
TAGCTACTGC TTCTAACAA TCCTTTCCCT TGTGTTAAGG GAAACCAGGT TCAAGGGGG

SEQ ID NO:1631: (Length of Sequence = 383 Nucleotides)

AGAGGATTTA TTGGACAGG GCTGTGCTGA GAGTCCCACC CTCACCCAC AATGGGCGGG GGCCTGGCA TCGAACACCA  
AGCTGAGTGA GAAGGGCTCC TCCAGGCTC GCAGGAGCT TGCTGGCTTC TCCTGGCTCA CAGCAGACTG GCGCCGACTC  
CCATCGGAGG AAGGCCAGCA TCTAGGCCA GCCAGTGGAG GGCTGGCAGA GGGCTGTGCC TNGAAGGTCA CTGTGCTATC  
TTCCAACCAC ACTGTGTGAG TCTCAGATAC CATATGTGGA ATCTGCATCA GGAAGGTCAA CTTGAGGTCA TTTTAAAGG  
GATTCTTCCG GNAAAAGGAG CACCGCATCG GCGNCTTA NCCGGCTT CCGTTCATCC CGA

SEQ ID NO:1632: (Length of Sequence = 424 Nucleotides)

GGGAAGTGAG CTCCTGAACC AACTCTGAAG GAGACACCCA CTGCTAAGC CAGTCTCACT CTAGGACACC TGCTAGCGA  
CCAGCAAACC TGGAAAGAAA GGGCAAGTTC CTCAGTGGCC CCTCTGCATC AAAGGGAGTG GCTCTGCCCT CTCTAGTCTC  
TGACTACCTG CTTAGTGATT TTGCTCTG TGCTCCAGA CCAAGAAAA CCACGTCTCT TTTCTCTT CATCGACTCA  
TCCCCCTCTT ACCCTATATT GTCTCTCCA CTCTCTGCT CTGCTGGCA GGCCTAAATC TGGGCCACCA GCCTTCTTG  
GACATACCTA TTTCGCAAC TGAACCTTCC CAACCCCTAG GAAACAAAG GTATTTTACA AGGCTCTTG ACCTTGACCC  
AAAGAGGCAT GNACCATAAT TACT

SEQ ID NO:1633: (Length of Sequence = 417 Nucleotides)

TTTTTCTAC AGCATCTTT TATGTCTTT ACCATTACTT TAATGCATTT TAAATTTAT CTACATTAAT TGGGAATAT  
TTGCATTTT TTCACTCTCT CTCTCTTTN CTTTNTCTT TTTTGGATT GTCTTGGCA GAGAGTTCT CCAACACCG  
GGTGGACTTG GAATTTTTTA TCAGCTGCAA TCTGAAGACT TGCTTTTACT GTGGAATAGG TGACATTCCT TTAGGACCTC  
AGAAGCTCAA GTAGTTAAT GCAAGTCTT TCCAGAGCCT CACTCTCTT TATTTTTTA ATTAGAAATG TGATTTATG  
AAGNCTTACC ATGGGGTCA TATAATTINT NAATNGANCA GCTTTATTGA GGTATAATTC AATACCCCTT TAAAGNATGT  
AACCGTGGG TTTAGAC

SEQ ID NO:1634: (Length of Sequence = 423 Nucleotides)

AATATCCCA ATGTGCAATG CATCACCTGA GACAGAAGGC AGAAAGCATC AAGCTCTCTG TTTATCCCA TTCAATGACA  
ACCAGAACTT ATTTTTTTT AGATGGGGT TGTCTCTG GCCAGGCTG GAGTGCACTG GGGCATTCAT GGCTCATCGC  
AGCCTCCAAC TCTCAGTCTC AAGCAACCT CCTACGTCAG TGCTCTGAGT AGCTGGAAT ACAGGCATGC ACCACCACAC  
TTGGCTCATT TTTAAAAAT TTCTGTAGA GACAGGATCT TGCTACATTG CCCAGGCTG AGGTGCCGTG GTGCATTCAC  
AGCTCACCGC AGCTCAAACT CTTTGGTCTC AAGCGATCCT CCGNCTCAG CTTCTGGGT GGCTGGGCT CAGGCATACA  
CCACCATGTC TTGGTCAATT TCT

SEQ ID NO:1635: (Length of Sequence = 384 Nucleotides)

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CAAACCTCAC TTGACCCCA TTAAGAGGCA AGCCTGGCAC ATCTATCCCT GGGCCTTTAG AAAGCCATTT GCCTCAAATG  
 GCTATAGGGT TGIGGGGTGG AGGGAGGAAG GGCTGGGAGG GAGTNGGGAG GAATTGCTAG CTGTAGTGTG ACACATTGTA  
 GTGTTTGCCA GGAAATGAGC CAGACATGGT GGTGTATGCC TGTAGTCCCA GCCACCCAGA AGGCTGAGGC AGGAGGATCG  
 CTTGAGACCA AGAGTTTGAG CCTGCGGTNA GCTGTAAATG ACCACGGCAC TCAAGCCTGG GCAATGTAGC AAGATCCTGT  
 TMTCTACAAG AAATTTTTTA AAAATGAGC CAAGTTTGGG TGGTGCATGC CTGTAGTTCC ACTA

SEQ ID NO:1636: (Length of Sequence = 362 Nucleotides)

CAAAATGACT GACTACAGCA ATGCCTTCCG TGTGCCCCAC ACATCATGAG CACCGCAAGA GACAAAAGAT TAACTATGAA  
 ATATAGTAAT CTAAGCAAGC CCACACATAC ATATTTTTGG GGATTTCCCA CCATCCTGAA TAGTATCACT GCAGTIGACA  
 CAACTTCCAG GGAAGTCAG AGTAAGTGCT TAATATTATC CACGAGAAAG CAAAACATAA TATTAGTGTG CACATTTCTG  
 AATGAGAAAC TAATGCTTC ATTGATTTCA ACAATGTAGT GGNAGNAAAC TATTTGAGAT CTCTACAATG CCTAAATGCA  
 TTCTATTTAA ACTCAAGGTA CTATTTTCAT TTTTACCATA CT

SEQ ID NO:1637: (Length of Sequence = 205 Nucleotides)

GGGCCCCGAC GAGGCTCAGA CCTCTNTIAC GNCGACTACT ACGAGGACGG CGAGGTGGAG GAGGAGGCCG ACAGCTGCTT  
 CGGGACGAT GAGGATNACT CTGGCACGGA GGAGTCCINA CACCACCAGA ATAAACTTGC CGAGTTTANC TCACTAGGGC  
 CGGACCCGTG GCTCCTTAGA CGACAGACTA CCTCACGGAG GTTTT

SEQ ID NO:1638: (Length of Sequence = 253 Nucleotides)

CACTCAGGCT CACCGTCTG CTCTCTGCAC CAGCCTTTCC AGAGCATNCC AGTNCATG GCTTCATCTG TTAACGTGTTG  
 ATCACTTCAG TCCGATTTT TAGACCTAAA TGGTTTCCTT AACGCCATTC TAACTGCCTG TGACTCATTT TCACCTACAG  
 TGTATTATGT AACGCCAAAC CAACAAATCA CAGGTGCTTG CTCTGTCCA TAAATCTCCC CAGTCTAACT TTTTGTCAIT  
 CAACATGRCT CGT

SEQ ID NO:1639: (Length of Sequence = 360 Nucleotides)

TGTGGCCAAG GACCCTATCG TCAATGTATG GTACTCTGTG AATGGTGAGA GGCTGGGCAC CTACATGGGC CATAACGGAG  
 CTGTGTGGTG TGTGGACGCT GACTGGGACA CCAAGCATGT CCTCACTGGC TCAGCTGACA ACAGCTGTNG TCTCTGGGAC  
 TGTGAAACAG GAAAGCAGCT GGCCCTTCTC AAGACCAATT CGCTGTCCG GACCTGCGGT TTINACTTTG GGGGCAACAT  
 CATCATGTTC TCCACGGACA AGCAGATGGG CTACCAGTGC TTTTGTGAGC TTTTTTGTGAC CTGCGGGATC CGAGCCAGAT  
 TGACAACAAA TGAGCCCTTA CATGAAGATC CCTTGCAATG

SEQ ID NO:1640: (Length of Sequence = 321 Nucleotides)

GTGGGACGCC CTCGCTGTG TCCTGAGAGC AATGTCTTCT CCATGGGGCA GCATNGGCC TGGATGGGCC TGAGCATAGC  
 AGACCAGTG GTACATGTG CATGTGTGGA CATGTGTGCA TGTGTGGATA TGTATGCTCC TGAGTGTATC TGCAITGCTT  
 NCCITGCACAC ACAGTGCTCC CCTCCGATGC TGCCAGCCTG TGGTGGACTT CCTCTTCTGA CCCCCTTCTT GCCNCCGGNC  
 TGTTTTATCA GTGAAAGGAC TTAACATAAGC AGATCTCCAG GTTCACCTTN TGGAACTCAG CTCAAGGTNA GCACAGCAGG  
 T

SEQ ID NO:1641: (Length of Sequence = 266 Nucleotides)

GGTGGTGCCA CTGTCGTGAT AGTTTTTCCC ATCTTAGTAG CCGNACCCAT AATTAATGCC TACTCACATC AAGTTAGCAC  
 CACTCAAATG TGGGCCATTC ACAGGCAGCC AGGGATCCTC TTGNCCTG AGGTGGGGG CTTCATCAG AATGCAAATC

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TRCCGAGGCG TGAAGCACAA TTTAKTTCAA CTGCCATKTK TTCCTTCACA GTAAGRCCTT CTGGRGGAAG GAAGCAGTGT  
GTTTGAGTTA TACCTTAGGC CAAGCT

SEQ ID NO:1642: (Length of Sequence = 295 Nucleotides)

AAAAGCCCCA GCCTCAGGAC CCCGGTCACA GGCACCCGGG GGTGGGGGTG ACCAGCAGCA GTTCAGAGGC AGGTGTGGGC  
AATGTGGGCC TGAGTCTCCT NCCCACTCAC GTCACTNCCC GCGGGGACAC AGCGGCATTT NTGGGGCACT NGGCATGCCG  
GGTTCCCTAAC CTCAATTATT CATCTGCTC TCAGGCACCT CCTGACGAGA CCTTGGCCCA GGAGAGCTCG GCTCGGGGAC  
AGAGGAATGA GACTCAGTGG GACGCAGAGN CCAACCCCAT CCCCACCCCT GGGCT

SEQ ID NO:1643: (Length of Sequence = 359 Nucleotides)

ATCATTGGTA GTTTAACTT TTCATCTAAT ATTAGATTGC ATGCAGGATT TTATATCTAA TTA CTCTGGC AGATGGCCTT  
TAGAAAGTTC AAAAATAAAA TGCAGCAATT CATATTGGCA GATTTACTAT TGAGACCAAT GCTTTCTTAA CTAAAAGGTT  
TTGTTTAAAA TCGTTAGTTT AGGAAATCTG ATAAAGATTT TTGAATATCA GAGCGTTTAA AAGAGATTCT TACTTTACAT  
CTGGCATATT TCTTGTTA CATATTATAA TTCCATTGGA ACATGGCTGT CTGTAAACT ATGTATATGA TCCGGAAGAG  
ACTCAAATTA AATTAAGGTT TAACAGCCAT CAAGTTCAT

SEQ ID NO:1644: (Length of Sequence = 293 Nucleotides)

TGAACCCGGG NGGCGGASTT GCAGTCAGCC GAGATGGCAC CACTGCCTC CAGCCTGGGT GACAGAGCCA GACTCTGTCT  
CAAGAAAAAA AAAAGAATTA AAAGATGTA ACAAAAGCAA GAAAGTGCTG TATGAACGAA ACGGAAATAT CAATGAAGAG  
AAATAAAAT TATAAAATTC AGGAAATGAG ANGACANIA NCAGNAAAT CACTGGAGAG ATTCAAAAGC ATATCTGAGC  
AGGTAAAAAA AGTAGTGAAC ATGAGATAGG TCAAGGGAAA AGTACTGAGT CTG

SEQ ID NO:1645: (Length of Sequence = 332 Nucleotides)

AAAAGCTGGA TATTAGGAAA TGTAATATT AATTCTGAAT TTGTTACTGA CTCAGGATGA CCTTGCATGA TGCATCCAAC  
CTTCTTTTCT CTATATCAGA AACTAAAGA ATAAATGTAA CATCACATTC TTTTCTCCTT TGGGACAAAC AACTATGTAC  
AATTGAATAA AAATGAAATT GCATAAGTNG TGGATAGAAT ATGTTTGGGT TGGTTTGAAC TTAGCACACT GTTTAATAAT  
TCAACATTTT TTATACCTGT GCAATAAATT TTAAATGAT GTCTGAAATG CTTTGAAATC TTCAGAAACA GGTTTATAAA  
TGGCATAAAA AA

SEQ ID NO:1646: (Length of Sequence = 210 Nucleotides)

GAAAGTNTCT CCAATCACTC TCTGCACAAT GAAGTGGCGG ATGACTCCCA GCTTGAAAAG GCAAATCTCA TAGAGCTGGA  
AGATGACAGT CACAGCGGAA AGCGGTGGAA TCCACATAG CCTGAGTGGC CTGCAAGATC CAATTATAGC TCGGATGTCC  
ATTGTGTCAG AAGACAAGAA AAGCCCTTCC GAATGCAGCT TTGTTAGCCA

SEQ ID NO:1647: (Length of Sequence = 246 Nucleotides)

TCCACTCCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAAA ACCATGCATT CTAAGAAGT CCCAGGTCA TGCTGCTGTT  
GCTGGACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA  
CTNAGGAGTA GCTGAGAGGA AAATNAAGAG AAGCTGAGAA GAAGCTGAGG ATCCTCAGAG GAGCAGACAG AGAAATGTGA  
AGGGTT

SEQ ID NO:1648: (Length of Sequence = 338 Nucleotides)

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TCCACTCCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAAA ACCATGCATT CCTAAGAAGT CCCAGGTCA TGCTGCTGTT  
GCTGGACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA  
CTGAGGAGTA GCTGAGAGGA AAATGAAGAG AAGCTGAGAA GAAGCTGAGG ATCCTCACAG GAGCAGACAG AGAAATGTGA  
AGGGTGGGGT TTTATGINTG GGAAAGGGAC CCGAAGCCCA GGCTGAAGAG TTTTAACTTT GGGCCCAGAA ACTCAACCAT  
CAATGGAAAC AGGGCAGT

SEQ ID NO:1649: (Length of Sequence = 275 Nucleotides)

GCACCTINAG GATTGAGACC CGGAAGGCTT CAAAGGCTGT CGCAAGGAGG AAGAACTGGA AGAAGTTCGG GAACTCAGAG  
TTTGACCCCC CCGGACCCAA TGTCGCCACC ACCACTGTCA GTGACGATGT CTCTATGACG TTCATCACCA GCAAAGAGGA  
CCTGAACTGC CAGGAGGAGG AGGACCTAT GAACAAATC AAGGGCCAGA AGATCGTCTC CTGCCGCATC TNCAGGGCG  
ACCACTTGA CCACCGNTG CCCCTACAAG GATAC

SEQ ID NO:1650: (Length of Sequence = 270 Nucleotides)

AAAAGCCAGA GGGATGAGAA TGAGAAAGTT AAAAGGGAGG TCAGGAAAGC CATCTTTTAG GAGAAATATA AATNGACAAT  
SCTTTAAAA AGGAGCTGCC ATCATATTAT ACCCTGACCC AGCTGGATAC GAACAAATC AGCCTTGCA ATGCAAGTCT  
TACATCTATT TTATATAGAT TGATATAAAG AGAACTGGA GCATTTTCAA GAGGGGTATG TATGIGTTTG TGTGIGTCTG  
GTAATTAATG AAAGAGAGGC TATTGAATTT

SEQ ID NO:1651: (Length of Sequence = 372 Nucleotides)

TCTTGCTTTT TAATTGTAAT TCCTAACACT AGAATTTTCT ATTTCAAGTT TTTGTACGTG GCCTTGGCTC TCCTTAGTAC  
ATTTTATAGT CCGTGTAGT TGATCCATT TTTCTTGAAA TTGAATCTC ATCTGACCTA ATTTCTTCT TGAATCCTAC  
ATCTACTTT CTCAATGGAC GCACTGACGC AATGAAGCAT CCAGCAAAGC TTTTGTGTT GATTGTTTAG GACGTCACCC  
TGTTTTTGT GAAGTTGTCT CACAACACT TCTCTTCTG CTTCTCTCT TCCATATTGA CATGTTTTT CTTTTCAAAT  
GGATTAACIT TATTGATCAT CCTCTGTC TCTAGCAA AGACGGGTGC TT

SEQ ID NO:1652: (Length of Sequence = 314 Nucleotides)

TTTCTGAGTA TGCTGCACTG GATTATTAGC ATGTTAAATA GTCAAAGGA CTGGAATAAA CATCAGGAAG ATTTCATAAA  
GTGGTGTAG TAGAAAAAA AGGTAAACA ATGAGCTGCA TGTGATAAG TATAAGACAC TGATCCAAGT GGTGGCTTCT  
GAACCATGAT ATTACTTAAN CTAGAGTGT AAGGTCAGCT TAAGTCAAAA TAAACAAAG CTCCAAACC CTCATTTTAA  
ACACAGTAGA TAATAGATGA NTCTGTATC TTGGGAGATA GTACAAGCCA AANGTTACAG CTGTGTTAAA ACCT

SEQ ID NO:1653: (Length of Sequence = 323 Nucleotides)

TAGATATGAT GGCTGGAGCT GCAATAGCTA ACTTGCAACT ATGAGGAACT ATAGGACTTT GGTCTTAACA TTCCTGAGCT  
CCGTAATCAA TACTTTAACT ACCTTCTATG AGACTTCTTG TCACATGAGA AAAATTAAGC CCCAAATTAA ACCCTGCTT  
TTNACTGTAA CTCTCAATTG AGCATAATTC CTAAATGNTT TAATCAATTC TACTCTACTC TGGCATGATT TTNAAGGCAT  
TAACCATAAT TTCCTTCCAA TCTAAAAAGG GAACTANTAC TTACTGGAGT ATCTAGTATA CATCAGATAC TGIGTATATA  
GGC

SEQ ID NO:1654: (Length of Sequence = 352 Nucleotides)

ATCTTGGCCT GCAGGAACAT GGCAAGGGCG AGTGAAGCAG TGTCACGAT TTTAGAAGAA TGGCATAAAG CCAAGGTAGA  
AGCAATGACC CTGGACCTCG CTCTGCTCCG TAGCGTGCAG CATTTTGCTG AAGCAITCAA GGCCAAGAAT GTGCCTCTTC  
ATGTGCTTGT GTGCAACGCA GCAACTTTTG CTCTACCCTG GAGTCTCACC AAAGATGGCC TGGAGACCAC CTTTCAAGTG

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AATCATCTGG GGCACITCTA CCTTGTCCAG CTCCTCCAG GGATGTTTTG GTGCCGCTCA GCTCCTGCCC GTGTCATTGT  
GGGTCTCCTC AGAGTCCCCA TCGATTTACA GG

SEQ ID NO:1655: (Length of Sequence = 325 Nucleotides)

AGGGTAAATT GTGAGACTGT TTGTATATAT TTTTGTGTTA TATGTTTTTG TTGTTGTAT GTTGTTATNT TTATTTATAA  
AATGATAGAT CTGTGGGTAG GTTCTGAGAA ATGAATAGCT TGTATTTCTT TTTTATGAA AGAAGAACAA AATGAAGTTC  
AAGTGGAAAG TATCTCCAGA AAGTTTACA TTTTCTTATT AACCAACTCA TTGATTGGCA TGTGAACTT GAGATATTTT  
ATATAGCACT TTTTAAATGA GGATCTAGCT TCACTNTATC ATACAACCAC ATTTAAAATA GCCAGGTCCA TGGTCATTAT  
AGGGG

SEQ ID NO:1656: (Length of Sequence = 285 Nucleotides)

GAGGTTAAT AGAATAGATC AAAGCAGAAT GCAGTGTGTT CATGTCATAG GTTGACTTCT CCAGGAAACC GACCCCAAGT  
GGAAGGTTA CATGCAGGTG GTTTATTAGA GAGTGATGTT GGAAGAACA CCTGTAAGGN AAGAAGGGAG CCTGGGAAGA  
GCAGNGGNAG AAGGTGAACT CTGATTCAC TGAACAGAG TCCTAGGCTG AGTGCAATGG ATNCTGTAGA GTTGGGGATG  
GACCTTCAGA GATATTCCA ATAGAGAAAG AATTCCTGTT TACTC

SEQ ID NO:1657: (Length of Sequence = 385 Nucleotides)

GACTTGACTT TGCTTTTTTC CCCCCAAGTA GAACTAATGC TAGCTTCCAG CTTGAAAGTA AAACCTCCAGT GTGGAGTGAA  
TTTTGTGCT AATTATAAAC CTGTAACCA AACTCAGACA TCTGGTACTG GTCCTTGCA TGAATTTGGT CCCTGTAAAA  
CCCCCTTTAA AAGCATATIG CATTIAGTAC AGAGCTCTTT TTGAAATGN AGGCTGGAGA TGTGATTTT TCACGGTGT  
AACTGGTGT ATCTTATTAG CAAGGAGATT GGGGTTTTG AGTGTTTGG TGGGTGGGT TCAAAATTGC CAGGGGAACC  
AGTGGGCAG CTGCTAGCAA GGCAGTGAGG AAGCTCTTGG CAGCCAAATG GGGTGCAATT CAGGG

SEQ ID NO:1658: (Length of Sequence = 338 Nucleotides)

GATCAGGACC TCTCTTCTT CCAACACTG CCCCAGAGC CGTGTGTAA ACGTTACCA GCACACTACT GGGCTGTTTC  
TCTACCATT GATTGAAATG ATCCTATGG AAGCAAAAT GACTTCACTG TCACTAAATC CAAGGGACAA TTTTATGCT  
CTATTTTTCT TCAACTCTCC AGGATGTTG AGAGCTGATC TTTCCCTCCC TCTTGAGCCT CCTCTCTGCT CTGGCTTTTA  
GGGGTCTCTG CTGACTTTTC TTCAITTTCT AACACATGIN CTCAGGGGGT CCTCAGCCCT GCAAGGCCNA TGCATGGGT  
ACCCAGTCTT GTGGGCTT

SEQ ID NO:1659: (Length of Sequence = 346 Nucleotides)

AGTATGTGAA GTCAATCACT TTTTATATGC AGATAATATG CGACTTATAA TGGAAGGTCA CGTTTCAATA GCAACAAAA  
AAGCTATAAG TAACAAAGAA TAACAAAAC ATAAATGTAT AGGCTCTACA TAAAGAAAC TATAATTCCA TAAAGGATCT  
AAAATAAAC GNGTAAATG AAAGACAAGA TGTGTGTGA GATACGAAGA ATCCATGATT AAGTTAGAGG ATTCTTGGAT  
GACAGTAGAG TAGAAAGCAC CAAGAATGAG TCTGTATACC CAGAGAACAC TTACGCTGGT AGGAATCTAT CTCATACAAC  
TATTATGGAG CTCTCAAAGT ATACTG

SEQ ID NO:1660: (Length of Sequence = 240 Nucleotides)

GATAGAAATG CCAGCCTTCC ACTTGAATGC ACTGCCATAT TGTCAGCTG CATTCCTTAA GCATCACTTC TTAGAGGCTT  
CAAGCTTCTC GGAATGTTT GATGACTTAA AGGGGAAATG AACAGGTTGC AATNATGCTT GTCAAGNTTC TTCTTGTGAA  
CCTCTATTTG GACAATTAC ACAAAAAAG AAAGCAGCTC ATTTCTAAT TCAGGATATT ATTTCTTTT AAAACTGGTA

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SEQ ID NO:1661: (Length of Sequence = 294 Nucleotides)

AGCACCTCCC CTGAGGGCCA GGCCTTGGAG AACCGGATGA AGCAGCTCTC CCTACAGTGC TCAAAGGGAA GAGATGGAAT  
 TATTGCTGAC ATAAAAATGG TGCAGATTGG CTGATTCAATC CTGGGCCCTG GCCGATATGC ATATCAACAT TTATACATGG  
 AACTGTGAGA ACATTKTGCC AATAATCAAT TAATATATGC CAAATCTTAC ACGKCTACTC TAACTGCTC TAATGAAGTT  
 TCAGTGACCT TGAGGGCTAA AGATTNTTCT TCTGGTGTA GAGCTCTTTG GGCT

SEQ ID NO:1662: (Length of Sequence = 291 Nucleotides)

GATTTTCATC AGGCAATNA AAGTAACCAC AGAAACAATT CAGTAATACT ACTAAGAGAG ATTAACCTCC CACTGGCCTT  
 GGAATAGCTA AGTGCAATGA TTTTKGTGTA GTGTGAGTT TTTTCTCTC ATTGATATTT TACGTATTTC TGGGGTAAAT  
 GTATTTTWA CATGCATTGA ATGTGTAATG ATCAAGTCAG GGTATTTGGG GCCTCCATCA CCTGAGTGT TTATCATTC  
 TATGTGTTT AACATTCCAA GCCCTCTCTT CTAGCTTTGG AATATATAGT G

SEQ ID NO:1663: (Length of Sequence = 345 Nucleotides)

GGCAGTGGGA CTCTCTGTGG ATAGACTGAT TCTGTGTTAG AAACAACAGC AAAAAGAAGA AGGCAGGAAA GAACTCCCC  
 GGCTCGGAGG AATGTCTCTG TGATCCCCAT TCTTGATGA GGGAGTGAAA AGGGCCTGG NCTTCGCCG CTGCTCTCT  
 GACAGAAACA GTAAGTACCA CCAGGACAGA AGGCAGGAGC CCTGAGAACT CACGGCGCTC TGCATGGTCT CCAGCCNNNC  
 ACCCGTCTCC AGCCACCCCT GGAGCGGCCG TGGGGAGGCG GCAGAGGGGG CTTTTCGGAG GGCCCACTAT TNCACACGT  
 CTTTCTTTNG ACACCCAGAA AACTT

SEQ ID NO:1664: (Length of Sequence = 334 Nucleotides)

GTAAATAAGA AAGTGAAATA ATTCCATATA TGTAAAGTTG ATAGAAGATA ATCATCAGGG TCAGAATTAA GAGGTCTTGT  
 GGTTTAGGAA GCATAAAATT ATGTAACCTA TTGTTTATTT CACTCAGAAA ATAAAAGTAT TAATGAAAGG AGTTAGAGAT  
 GAACAGATTG ATACAAACTG TTCTATGGTT TACAGCTTAA AAAATAAAGG TACATTTAAT GCTATGCATT TTGAGAAATA  
 TGTCTTTTAT GCINTTCCCT TTTACATATG TATCINTTTG TATTTAAGGT CAAAATAGAT TGACATTACT AATTACTTCA  
 CTATTAATAA TTAA

SEQ ID NO:1665: (Length of Sequence = 310 Nucleotides)

TGTACINCTA TGAAGCATCC CTTCCACATC AGATCAAAGA CATCTTAAAG CCAGAAATAA TGGAGGAGAT TGTGATGGAA  
 ACACGCCAGA GGCTTTTGGG ACAGGAGGGA TAAGGAGGTG CTCCAGAAGC ACGGGACTNT GGACCTTGCA GGAGTGAAGA  
 CTGTATGTG TGGTCCCAT ATGTGGCTCA GCAAAGACTC GAGAGATCAT CCTTTGTCT GCATTGACGG CCTGTGAGG  
 GCCTCCAGCC CACAGGCTG CTTTCTCTG TCCTAACACC AAGCCTGGGT GGCAGATGAA CAGTGCTTCC

SEQ ID NO:1666: (Length of Sequence = 352 Nucleotides)

TTTTTTTTTA CATAAAAGT TTGGATTTTT ATTGAAATCT TGTAGGTAT CAAACAAATT CTGCTTTCTT CAGATAAAAA  
 TATTCTCTCA GATGTCTCCA GATAACTGCT AAGTCTAAAT TGGTCTTCA ATGTCTTATT TTTATGTGCC TCGTGAAATG  
 TTCATATACA GTTAAGATGT TCCCAAAGG ATTTTATCG TGTAAGGAG CGTACATGAC GACCTCTACC ACTGCCTCCA  
 CTAACAAACT TTCCTCTGA GCCTCCACTG CCGCTATTTG CACTAGCCCA GGAAGGTCC AAGTCCCCCA CGACCTCTAG  
 AAGCACGTT CCGAGGACT TTGGCGGTAA CC

SEQ ID NO:1667: (Length of Sequence = 287 Nucleotides)

GACAATATG CCGCTGCCCA CATTTTGGTC CATCTTTTT TTTATTATGC TTCTCTTNT TGGACTGGAT AGCCAGGGAT  
 GTTTCANCTT CTCGCTGTC AAGTACGTAC CCTGACCTA CAACAAACA TACGTNTACC CCAACTGGGC CATTTGGGCTG

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GGCTGGAGCC TGGCCCTTIN CTCCATGCTC TINGNTCCCT TGGTCATCGT CATCCGGCCT CTGCCAGACT GAGGGGGCCG  
TTCTTTTG TG AGAGTCAAGT ACCTGCTGAC CCCAAGGGAA CCCAACC

SEQ ID NO:1668: (Length of Sequence = 300 Nucleotides)

CCAGACAAAT ACCAAGTTTA TTTCACAAAC ACTAGGAAGA TGGGTGAGG GTGGAGGTGG GGGACACAGG TGCCANTGC  
ACAGAGTCAG CAGCAGCAGC CTGNTCCCG CACTGAGGAC TCGGCCTGGA CTGCAGTGCC TCCAAATCAA CAGCAGCAA  
GAGGGGAGTIN CAGNGAGGGC CCTNAACACC AAGCCTCTGA AAGGCTAAGG GACACAGCTC CATCTGTCCC AGGAAAACCA  
GCAATAAATA AAAGTNNGGC ACGGCCCCAC CCACACATAT CATCTAGTCA CCCATCTTCA

SEQ ID NO:1669: (Length of Sequence = 334 Nucleotides)

TTTTAATGAC AGATTTTCCT AAAAGAAACC ACTATAACAT CTGTCCAAGT ACTCCAGAGA AAACAAAAA TACATAAAGA  
TTAAAAGTCT ATTACTTTAA CAGCACATTG CCAACACCG ACAACTAGGA TAAATGCCAA GAAACCTTAA AAAATAACTT  
TAAAAGATGC AACGTTCAAG CCATTCAAAC GCGTAGGTTC CACAAACAAC AGGNNAACAA GTCCAAGAGC AGTTCTACTT  
GTGCATGATG GTAACTCAGA CTGTACTTCA TCAAAGTTCA TTCAGGTGTT TCATAGGCGT CTGAGCAGAG TTTTGTTTTT  
TTCTTTTCCTT GCTT

SEQ ID NO:1670: (Length of Sequence = 287 Nucleotides)

GATAAAAGAG AACACGCGAA GTTTCAGAG AAAAAGTGA GGTCTTAATA ATINTTGGC AACTTGACAG CAGAACAGGG  
TAAANTGAG TTAGCTACAA AGGCTCATCA GAAAATGGCA ATAGATTCCA GAGAGATTTA ATAACACTT ACAAACTCTG  
CTATAGGTGA CAAATCTGAC CATGATAAAA GCACGTAA TGATATAGGT AACACTGNC ATATGAAAC TCAGACTGTG  
CACTAGATAA AAAGGAANCC CAGCATACAG TGTTACCACA TGTAAT

SEQ ID NO:1671: (Length of Sequence = 187 Nucleotides)

GATAAAAGAG AACACGCGAA GTTTCAGAG AAAAAGTGA GGTCTTAATA ATTTTGGGC AACTTGACAG CAGAACAGGG  
TAAANTRAG TTAGCTACAA AGGCTCATCA GAAAATSGCA ATAGATTCCA GAGAGATTTA ATAACACTT ACAAACTCTG  
CTATAGGTG GACAAATCTG GCCCATG

SEQ ID NO:1672: (Length of Sequence = 329 Nucleotides)

ACATCACAAC ATCGTTTATT ATGTGAATTT TTACAAATAC AAACAAAAA TACAGAAATG CAATATATGA ATACAGCTAA  
ATGCAGAATG GTGACTTTTT TCTCTCAAG AGGCCATGAT TCCATTCTT AGTAAATAA AGAGACTGCA TATAGGTAGA  
AACAGGTGG TCATTAGCTT CACAATTTG CCTAGAAATG ATCTATAAAT GCATTTCCCC CCTGCTACT TACCCTAAAG  
TGTAAGAGG GAGTTAAAGG AAAGTTTCCT TGTTGGTTCC TACCATATGA AAGATGCTAT ATTCTATTTT AGCAGTGCCA  
ATATATGGG

SEQ ID NO:1673: (Length of Sequence = 386 Nucleotides)

CTCCCTACTG TGATTCTCAT CAGCTGGAA GGTGTTGAG AAAGCACTTC AGTTTCTTCC CTGGATATG AACCTGAGCT  
CTCTGATGAG GTGGTTTGA AGTGGCCCTG GGAGAAGCCC ACTTCTTGGT CACAAGATAC TGCAATCTCC TGGCAGATGA  
ACCAGCTGCT TCCAGCATCC TCTGTGTTGG TCCTCAGCC TAGCTGCTCT ACGTGTGTCG TCACAGTGG CATCATGCG  
GGAAGTAGAA AAACCTCTGA TGCTGTCCC CACCGGCTT AATCAGAGT AAGTCAGATT ATCTGGGCT GGGACCCTAC  
CATCATTTTT TTAAAGAAT TGCAGGGGCC AGGGGTGCG GGGCTTCAGA GCTTCTTAC AATTTT

SEQ ID NO:1674: (Length of Sequence = 377 Nucleotides)

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CTGAAATTTG GCAAGAAGGG GCAAAAACGT GACTATTAAT GATTGATAAG CACCAGTGAA GAAGTTCTAA CTTTTCAGCAT  
 GCTGCACAGA AACTGGTATA ACATGCCITC AGTATACTAA CACTCATATG CTCAGTTTIG TTTTGTTTTG GCAGTTGACA  
 AGAAGTTAAT TTGCTTTAGT AAAAATCCCT CATTCCAGCC TTTCTATATA AATAGCTCTT TCTTGCTGTT TTAATGTGGT  
 GCACACTATA GCCTCACAAA CCTGTTATTG CAGTGTAAAT TGCAGTGTG TAACTAAAGT TACTGGCTTG GGTCTTATTT  
 GCACAGTTTT TGCNCTTGT TTGCTTCTTG CATCTGGATT AACTAGGAAT ATTTCTC

SEQ ID NO:1675: (Length of Sequence = 381 Nucleotides)

CAGAAGTCAA TCAGCTACGC ACCCAGTTCT CAAAGACCTC ACATGCTAGG GAAGGTGCGG AGGCAGAGTT GTGGTTCAGA  
 AGCAGTTACA GGTCCTAAG CAAGAACAGC AGCCAAAGCT TCCACGCCCT GACGCTGCCT CTGAATGGTA AACCAATGGC  
 ATATGGTATC CACAGCTAGG CTTTGCTTTT TTCTGAGTGA AGGTAAAGG CATTTGAAAA TAAACCAAAG TTTCACAGAC  
 TATGTTTATG GAACAAACAT GGGCAATTTT CAGGGATATA AAAGTCGATG TTCTATGTAG GCCCCATAT GAGTATTTAT  
 CTACITTTTA TTTACTTTAT TTTATGGAAT TTATTGNC AAGGGCTTCA CTCTGTTCGG A

SEQ ID NO:1675: (Length of Sequence = 404 Nucleotides)

CTGTGTGAT TGCTTGAGCC CATCACAGTT TAGCTCTCAC AGCTTTAATT TACTAGCCCA TGAGAAGTCA GCTTCAAAGA  
 ACACCATTTC GACTCTCAA GAACATTATC AATGTACATG GATAGCTTCC AACTTCATAA GGTGTTCCTC TCTACCTAGA  
 GCAATTAACA TTAATTTGCA GAATAGTGT TATTGAAAC CTTTGIGTAT CTCCAACAAA GTAATAGTGT ATTGATTTCA  
 TTCCTACTAT CTTCACTGT ATCATTAGA GGAATTTCTT AGGNAAGTCT ATATGCAGTA AGCAAGTAAG ATCGCAGAAC  
 ATCAAAGGGA GGAAGTAAAT CCCAAACTG GNTTTTACCT TCCTTTCCCT TAGGTGAGGG AAAGGAATTT ATGGTTTTAA  
 AGCT

SEQ ID NO:1677: (Length of Sequence = 388 Nucleotides)

ATGGACAAC ATGAGCCAGG AGTCTACACA GAGAAGGTTG TGAAGCCAC TAAGCTGCTC TCCAACACAG TCATGCCACG  
 TTTTACTGAG CAAGTAGAAG CAGCCGTGGA AGCCCTCAGC TCGGACCCCTG CCCAGCCCAT GGATGAGAAT GAGTTTATCG  
 ATGCTTCCCG CCTGGTATAT GATGGCATCC GGGACATCAG GAAAGCAGTG CTGATGATAA GGACCCCTGA GGAGTINGAT  
 GACTCTGACT TTGAGACAGA AGATTTTGAT GTCAGAAGCA GGACGAGCGT CCAGACAGAA GACGATCAAC TGATAGCTGG  
 CCCAGAGTTG CCCCGGGCGA TCATGGCTCA AGCTTCCCCA GGGAGCAAAA AAGCCGGAAG ATTTTCGG

SEQ ID NO:1678: (Length of Sequence = 428 Nucleotides)

TAACTGTGCA AATAATCCAT GAATATATTG TTTTATACA GCAATACAGA TAAGGCTTGC AGCTCTATAG ATCACCTCA  
 TCCACTCCTT CACTCCATG CTACACTTAA AAGCCTCACA TGCTCTCTG TCCTCTCCAA AGGCAGCTGC TAGCATCAGC  
 GCCCACAGTA GCCTCTTTT GTTTCCTGTT TATAAACCAT ACAITTTCTA TGGCTACACA TACGTGTATT GTTTGATGCT  
 TTCTAATAAA ATTGTATCAT AGTGGTACAC ATCTTTTACA CTTTCCINAT TACAGTCAAC ATTTGGNGGA ATACAGAATG  
 CAGCAGATCA AGGANCITTT CTCAGTCTTT TCTAACATGN CCCAAATAC AGCCTCACTA TGGGGTCCAT TTAGGNGGCT  
 CATTTGTTTT CACTCTACA ACGGTGGC

SEQ ID NO:1679: (Length of Sequence = 256 Nucleotides)

GGTGTCCACA GCCTGCTGCC TGGCCTGGAG CAAATACCTT TGTTAAGTGC TCAGAGGGTA TGGCCCTCA AATCCACCTT  
 GCAGTCCCTT GGCTGCAAT AACTCACTC CATCTTTTCA ACTCGCTCCC TGGACCCCTG GTTAACACTT CACTGTAACT  
 CCTCAGTGTG ACAAAGCATT TTCATTTGAA TACAAAAGGC AACTNGNCAC CANATGGGCA TCCTTGAGCC ATGGTAAACA  
 CTGAATTINA GGCTCA

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SEQ ID NO:1680: (Length of Sequence = 438 Nucleotides)

TACCAAGTAGT TCCTTTCCCG CTTTATTTTT TAGCTGCTTT TTGGGTTTTA TACAATGAAC ATGTATTAAT TGTAGAAGAA  
 AACGATGTCA TCCTTTATGA TAAATCCAT TTCCATTTTA GCTTTTTTAA AAAAACAAAA AGCTGTGTGT GACAGATGAA  
 CATCCAAGTA CTGGGCACAC CTCAGCCCT CCTCTTCCA CTGAAGGCCA TTGCCTATTC CTAGAAAGTT CTTTCCAGG  
 TATGCAGCTT TCAGTTTCCA CTTCAGAGGC CACAGTGTCT GGGGAACGG ACTGCCCCCA ATACTAAAGG GAGTCAAAAT  
 CTCTTTAATT NCCGCACTTC CTCAGTACCA ACAAGGAAGT CCTTCTTTA GGGCCACTGG ATGGGAACCT NGGGACCCCC  
 CTTTTTGAT TGGCAAGCAT TGGGNTCCT AGGGCCTT

SEQ ID NO:1681: (Length of Sequence = 370 Nucleotides)

GTCTGGGAAG GGTACAATGT CGTCCGCGCC TCGAGGGCCA TGATTGACA CACCGACTCG GCTGAGGCTG CCCAGGAAC  
 CATAAGGGGT GACTTCAGCG TCCACATCAG CAGGAATGTC ATCCACGCCA GCACTCCGT GGAGGGGGCC CAGCGGGAGA  
 TCCAGCTGTG GTTCCAGAGC AGTGAGCTGG TGAGCTGGGC AGACGGGGGC CAGCACAGCA GCATCCACCC AGCCTGAGGC  
 TCAAGCTGCC CTTACCACCC CATCCCCAC GCAGGACCAA CTACCTCCGT NAGCAAGAAC CCAAGCCAC ATTNCAACC  
 TTGCTGTGNC CAAACCACTT ACTTCCCTGT TNACTTTTG CCCANCCCA

SEQ ID NO:1682: (Length of Sequence = 397 Nucleotides)

ATGTAATCCG CTGCACAAA CACACCTTCA CCAACCACAT GGTTTTTAAG TTTGACTGCA CAAACACACT CAATGACCAG  
 ACCTTGAGA ATGTNACAGT GCAGATGGAG CCCACTGAGG CCTATNAGGT GCTCTGTAC GTGCTGCCC GGAGCCTGCC  
 CTACAACCAG CCCGGACCT GCTACACACT GGTGGCACTG CCCAAGAAG ACCCCACAGC TGTGGCTGC ACATTCAGCT  
 GCATGATGAA GTTCACTGTC AAGGACTGTG ATCCACCAC TGGGGAGACT GATGACGAG GCTATGAGGA TGAGTATGIN  
 CTGGGAAGAT CTGGAAGTT TACTGTAGC TTGTTACAT TCCAAAAGT TCATGGAAC TGAACITCGA GCAGCCT

SEQ ID NO:1683: (Length of Sequence = 396 Nucleotides)

GGCTGCGCAG AGGAGCCGCT CTCGCGCGCC CCACCTCGGC TGGGAGCCCA CGAGGCTGCC GCATCCTGCC CTCGGAACAA  
 TGGGACTCGG CGCGCGAGGT GCTTGGGCG CGCTGCTCTT GGGGACGCTG CAGGTGCTAG CGCTGCTGGG GGCCGCCCAT  
 GAAAGCGCAN CATGGCGGCA TCTGCAACA TAGAGAAITC TGGGCTTCCA CACAACCTCA GTGCTAACTC AACAGAGACT  
 CTCCAACATG TGCTTCTGA CCATACAAAT GAAACTTCCA ACAGTACTNT NAAACCACCA ACTTCANGTT GCCTCAGACT  
 CCAAGINATA CAAACGGTCA CCACCATGNN AAACCTTACA AGCGGGCAIT TTAATINCA ACANCAACCA GGGGAT

SEQ ID NO:1684: (Length of Sequence = 417 Nucleotides)

ATCCAGGGGA GATGCATGTG GAAATGTGGT CCTCTGGGT CAGACCCCTG CACGGGACAT CTGCTTTN AGTGTGAGA  
 GTACATGGGG AAGGGGCTGG GGGCACCCT GTGTACCTGG GCCCAGTAAG GCATTTGCCG TGATTCACAC AACGGGTCA  
 AAAGCTGGCC TTCAGGTGA CCTAACACCA CCTCATGCC TGCTATAGAC CTTACAAAC GACTTCCACT GCTGAAGCCT  
 GTAGGCTCTG TTTAGAGACA AGAAGATGGC TGGTAATTTA AGCACCATT TCCCAAGTGC CCACTCTCCT TTGTGCTCTG  
 TTGGCTTTTG GCCTAAAGCT TNNCCAGAG TTAGGGTGA GAGTGTCTGT GGTCTGTGAG ATGCCCTTCC CTTCCCCCT  
 CTGCTTCAAC CGTGGTT

SEQ ID NO:1685: (Length of Sequence = 429 Nucleotides)

GAGCCATGGA GAACCTGAA AGGAAGAATC GCTGCTTNC TCAAGCAAAT CGGTTCCTTG ATGCTTTTG GTTCTCCTTG  
 CCTGCNCTG ATGCTTGNC CCTTTAATT GATCAGAGTG CTCTAGAATA ATGGATGGTC TTGGATGATG GATAAATAGG  
 GACAGGGACA GTTAAATGG GAGCCTTCT TACAACCTTN ATGGGATTTT CCCCCAAG TTCTCTCTC CACTGAAATG  
 CCACACTAAT GCTGTGGG ATTCATGAGG TGGCCAGACC AATGTGTGT TTTGTGTG TTTTTTTTT AAGCTTCCCT

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TGAGAGAATA AATGGGTAAT GGGAGGAGAA CTATTTTAAC AAGGGTCCTG GGTTCCTCTT TGCAAACACA GTAGGCTTAA  
ACTTTGCCTG CTTTTTAAAA TGGCATTIT

SEQ ID NO:1686: (Length of Sequence = 445 Nucleotides)

TGCTTCATA ATATAACAAC ACTAATACAC TAATAGTAAG ATTAAGTTAG GCAGTCTTCT ACCAAATGTG TAATGGAGAT  
TGCTCAAAA TTGTGTCCAC ATAATCCACG CTCATCTTGC AAAGCGCTAT TTCAGGCACT TTTTTTTGAG AAAGAGTCTC  
ATTCTGTGCG CCAGGCTGGA GTGCAGTGGC GCAATCTTGG CTCACAGTAA CCTCTGCCTC CCGGTTTCAA GCGATTCCCC  
CGCCTCAGCC TCCCGACTAG CTGGGACCAC AGGCACGNAC CACCACGNCC GGCTCACCTT TGTATTTTAA AGTAGAGATG  
GGGGCCTCAC CATATTGGGT CAGGCTGGGT CTTCAATCTN CCTGGACCTC ATGNTCCACC CGCCTTGGGC CTNCCAAAAG  
TGCTTGGGGA TTANAGGGAA TNGGCCACC GGGCTTGGG CCAAT

SEQ ID NO:1687: (Length of Sequence = 170 Nucleotides)

AAAAACCAA TAAAGCAATA ACTTTAAAGA CCTCAGACAC ACACAGTATA AACACCTGGG TAAGGTTTTN TCCGTGTCCA  
TGTTGACACC GGAAGTACCG TTAAAGTGCA AGTTTGTGTT TGTGTCCTT TGTGAGTIT CACTCACATG TAAACAAGTC  
ACTTGGCTAT

SEQ ID NO:1688: (Length of Sequence = 386 Nucleotides)

AATGTGATTT GATGTTAACA CTAGAGAATG ATGACTGTAG AACATTTGAG CAAGTAAAAT AGTAAAGCAC ATAGTGAGTG  
TATGTCCATC TAACGGTAC ATTGATAATT TAGTTTGGGC ACATAAAAGG AATATTTATA TGGCTTCCCA AATGCAGAGT  
TACATCTTAT TCGTGTATTT CTCGTAGTAT TTATATCCCG TCCTCTTTT TCATTCTTAA AAATAAATGA ATTTTCAGTG  
TTGGCACATA TGAGGCTTAA ATATAAGGAG CATAACACTT GCATTCTAAT TTTTGCATAT ATTGTAATG TGTCTGGTAT  
TTACAGCAA ATACTGTGTA TCCTTTATGG GTAAACAAAG TGACATTGCA TGCATGTAAT GTGATG

SEQ ID NO:1689: (Length of Sequence = 400 Nucleotides)

CTTCTGTGCG ATCAGCGTAT TCCTAGATTG GGAATTCAAA TTAATGAAAA TTCACATATG AAAGGAAAAT CCATGTCTAT  
TTCTGGAGAG GACCTCAGTC CTGGGCTTTT CCCTGGCAIT GCTACCTGGG TGGGTGCTCA CCACTCAGGT GCTGGTGTG  
GAAGGCAGGA GGAGGAACCT GAAATCCTGC CGATTAGGC TAATTAACAG GGTTTAGGTG CCTAATTATC ATGACTCAGC  
CCGGGACTTA TGGTTAGCCG TGCAGGCCAG GTGAGTCTCT TATGGACTTC CTCTCAGACT GCTCTTTCTC ATTTTGTCTT  
GATGAGATAT TGACAGTCAT GTCCACCCGC TTCTCATCC ATTCCCGTC TTGGGGCCCT GGAAGTACG GGGGCCTCTG

SEQ ID NO:1690: (Length of Sequence = 337 Nucleotides)

AGINATATAC CTTTAAAAGT AACTAATGCA ACTGCCAAAN AGGGACAGTG TCAATATCAT TGINTTCATT AGAAGGACGG  
CTGCCCCACA CTGTNAGAAC ACTGCTGTTC CTAACAGTAG TTTACTTTNA GAGGGATGTA AGAATTAGTT TNACCTTAAT  
TCCAGATGIG CATGCCCTCA AAGAAAAATC CCAATCTCCT TCCTTTTGGG GAGCACTTTT GGTGGCACCA AGGCTGGTGT  
GGGGTAGTGG AGAGAGCACT GAGCTTAGAG TCACAACCAG ATGAAACTGC TCTGGTCTTC ACTAGCTGTG TGACTTGGGC  
AAGCAGCTTG CAGTCTC

SEQ ID NO:1691: (Length of Sequence = 372 Nucleotides)

TCAATCTCCC AAGGTGCTGG GATTATAGGC GTGAGCACGT GCGCCAGCC TTAATTTT TTAATCAGA TTTTAAATC  
AACTAAACA GCTATGAGTT AAGTACCTGC CCTGCAAAA TTTTATAGAA AAGTTTTAGG ATTATGAAAT TAAGAATTAT  
TTTCTTAAAC TGAACAGTT CTAATAATTA TCTGATACTT CTCTAACAAAG TGAGTGATCT CATGTAACCC CAGTTGTAT

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CTTAAAGGCT GCAGCATAGA ATTGAGCTGT ATAACAGTGT TAGAACTGTC AAGTGATAAT CACAGAACAG TTTGTATCGG  
TTTTATAATT CTCATGTCCT GATCAGATCT GAAGGGAATA GGCATACCCCT CC

SEQ ID NO:1692: (Length of Sequence = 360 Nucleotides)

TTTTTTTGGC AAAAATAGTA TATATTTATT ATGTACAACA TGTATTTTGA GATATGTATA CATGTGTGAA TGTCTAAATT  
GAGCTAACAA ATACATTATC TCACATACCA TGTTTTTTTG TGGTGACAAC ATTCAACAAT ATAGACCATT TCACAAATTT  
GCATGTTATC TTTGTGCAGG GGCTATGCCA ATCTTCTCTG TATTTTINCA ATCTTGGTGT ATGTGCTGCT GAAGCACACA  
CCCTAATTCC TTTCAATTTAA GGNCTAGTT AACCTTCTC TTAAGTATAA CCATGTATTT TGTTAAGCAA TATCTTTTAA  
TTACAAAAAT GCCATTTTTT TCTGGNTAGG AAAATTGATT

SEQ ID NO:1693: (Length of Sequence = 378 Nucleotides)

GACAAAAAGA GGGGTCTGGC TGCGATGTC GAAATTTGTT TGTGGACTT CACCGTTACT CTGACAAGCA CAACTGTCCG  
TATGATTACA AAGCAGAAGC TGCAGCAAAA ATCAGAAAAG AGAATCCAGT TGTGTGGCT GAAAAAATTC AGAGAATATA  
AATTACTTCT TGTGAAGAGA CTGAACTTT GTTTTTATTT TAATATATCG TAGGAAAACA TTAAAGACGA GATGCATGGC  
CATTTTNCCT TGATGTTCTC CAGAGTTTAA CATTACACTT GTCTGTCTTA TAATTGATAT TTTAGGGATG TTTGGGTGTT  
TGTTACAGGC AGAATGGAT AGATACAGCC CTACAAATGT ATATGCCCTC CCCTGAAA

SEQ ID NO:1694: (Length of Sequence = 362 Nucleotides)

AATGCACTTT ATTGGCTCCC AGGGAGTGGG ATGCAGGATC AGAGTGGACA CGCGCAGGGG GCTGGTGTGG GGAGCAAAGC  
NCCGGGCTG CCCCAGACCC TGGTTCCCT GAGGACCAAC GTGAATGGGG GCCCCACTGG AAAGATGCTT GGGGCTGCAG  
AGCGGATGGA ATGCAGGCCC AGGTGCTGG GTGGTCCCT CAGCTCCTGG CAGGGTTGAC GGGTGGTGGC CGCTGGGCTC  
TGCCAGCCGA TGGTCCNCTG GCACCTGATC CTGTCTTCCA GCTTCACTTC CGGGCCTGCT CGTAGTTGTC AGTGAACCAA  
GCACAGGTCT CCTTGACCGN CTGCTTTNAA GGGTGTGAAN CG

SEQ ID NO:1695: (Length of Sequence = 411 Nucleotides)

TTAATACAAG GGGTTTGAAC TGGACATCCT AATGATGCAA TTACGTCATC ACCAGCTGA TTCCGGGTGG TTGGCAAAC  
CATCGTGTCT GTCTGAGAG GCTCCACAAT GCCACCCGC ATCGCCATTC TGTAGTCTTC AGGGTCAGCT GTTGATAAAG  
GGGAGGCTT GCGTTATTGG CCTAGATTTT GCTGCAGATT AAATCCTTG AGGATTCTCT TCTCTTTTAC CATTTTNCCT  
CGTCTCTCA CTCTCTCTT CTCTCTCTAG CTTTTTAATT CATGAATATT TTCGTGCTG TCTCTCTCTC TCTCTGTGT  
TCTCCAGCC CTGTCTCGG AGACGGTGT TTCTCCCTT GCCATTATC TTTCAACTC CCAGGGCTAC CCATTTCAAT  
GGTGGTCTG T

SEQ ID NO:1696: (Length of Sequence = 280 Nucleotides)

CTTGTGATG TTTTACGCT TTACAAAAG CAGATTGGT ATTCAGAAAA GCTGCAAAT ACAACATTGC TTAAGAGAAC  
CTGTAAACAC GTTTGGAATA CAATGCAACA CAAGTCAGCA AGGACAGGG TAGGTCCAAA GGAGCCAGCT AGGGGGAAG  
GTGACAGAAA AGGAGAGGGA AGGATGNGA CAGACATCAC CTGTGGTCTC TAAGGGGGCC NIGTGTTTAA TTTATAAGGT  
TTTCTNCCA CAGGAGTCT NNTGTGATCT ATCGTTTCA

SEQ ID NO:1697: (Length of Sequence = 418 Nucleotides)

ATTTCTTCAT TTACAAGAG AATATATTTG GTTCTCTCT TAAGACTCTG AGATTCAAA TCAGCAGCTC TAAAAATAA  
AGGAGCAGTT TGGCTTCCG AAGGAAGAG AGGCAACACT CGGACCTGTT TCTGTACAA CAAGAAAACA TCGCTGGGGC  
CCGCTGAGG CTGGAGTGG GGTGGAGCT GTCTTTTGA GGATGCCACC CCCACCCAT CCTCTGTCA GGCCCTCGG

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GTACCCAGAG GCTTNGTGGG TGAGTATTCC ACCTGCTTAC ACACCACTGA AGCCACAGCC AGCCAGTAAC TAAGGGGCAA  
GAAAGAGCAT TGCCCAAGCT GGCTCTTNG GGGGTCGCC CATNGGCCA CAAAGGCCCTC ACCCCCCACC CCATCCCCGT  
AACCAGAAAC CACCTTGA

SEQ ID NO:1698: (Length of Sequence = 376 Nucleotides)

ATTTTATG TTTATTACT TATTTTTC CCTTTTTC AGAGATGGG TCTCACAGTG TTGCCAGGC TGGACTTGAA  
CTCCACTCC TGGGCTCCAG CAGTCTCCT GCCTCACCTT TCCAAGTAGC TGGGGCTATA AGTACACACC ACCATGCCCA  
GCAATATTTT AATTTCTGTA ATGTGTCATT TAGCCAGTGA TTGTGTATT ATAATAGAAT CACAGAAATG GAGGGACTCC  
TAGAGGTAAT CAAATCTGGT GGTTTTAAAG CCTTTTATTC CCTCTAAAGG GATAGTAAAA CCATTAAAAA TATAATTTTT  
CCCAATTATG TAAGCCAGRG AAAGCTGACC TYCTGGTTTA GAGAGGAACA CAGATG

SEQ ID NO:1699: (Length of Sequence = 365 Nucleotides)

GGTACATGIG CACAACGNG GNGTTGTGTA CATATGTATA CATATGCCAT GTTAGTGTGC TGCACCCATT AACTCGTCAT  
TTAGCATTAG GTATATCTCC TAATGCTATC CCTCCTCCT CCCCCACGC CACAACAGTC CCTGGTGTGT GATGTTCCCC  
TTCTGTGTC CATGTGTTCT CATTATTCAA TTCCACCTA CGAGTGAGAA CATGCTGTGT TTGGTTTTTT GTCTTGGCA  
TAGCCAGATG CAGCTACTCT TAATGTGCAT ATTTTCATCC TAGAACATTG GAGAGTTCTT GTAAAAGCCT TGTGTTCCAG  
GAGGAAGGAG ATCCTGACCC TTGTGCTGAT GGCAGCAGTC AGGGG

SEQ ID NO:1700: (Length of Sequence = 397 Nucleotides)

AAAGGCAGTC AAGCAGGAGT TAAACAATAT GGACCTAAT CTCTTATAT GAGAACATTA TTAAATTCCA TTGCTCATGG  
AAATAGACTT ATTCTTTATG ATTGGGAAAT TCTGGCTAAA TCTTCCCTTT CACCTCTCA GTATCTCCAG TTTAAAACT  
GGTGGATTGA TGGGGTACAA GAACAGGTAC GAAAAATCA GGCTACTAAT CCTGTGCTT ATATAGATGA AGACCAATTG  
CTAGGAAGAG GTCCAACTG GGACCTATT AACCAACAAT CAGTAATGAA AATGAGGCTA TTGAACAACT ATAAGGCTA  
TTTGCTCAG GGGCCTGGGA AAACATTCAG GACCAGGGA ACCTCATGCC CTCTTTTATG GTTCAATCAG ACAAGCT

SEQ ID NO:1701: (Length of Sequence = 245 Nucleotides)

GTCTAGGAGG AGGCTTCTG CACAGAGCCC CTGAAGAACA CAGGCAGAGG CCCCCACTT GGCTTCTACC ACGTCCAGAA  
CATGCGAGTG GAGGTGACCA AGTCTTCAT TGAGTACATC AAGAGCCAGC CCATTGTTTT CNAGGTCTTT GGCCACTACC  
AGCAGACCC GTTCCGNCCT CTCTGCAAGG ACGTCTCAG CCCCCNAGG CCTCGCGCC GTCATTCCC TCGGGTCATG  
CCACT

SEQ ID NO:1702: (Length of Sequence = 349 Nucleotides)

ATCTGTGTC AGCACAGITT TATTTGCTGT GGAATCCATG AGAGCCGGAA GCATCGTTGG GGCCGTGGCT AGCAGAGCTC  
ATGGTGACCA GTCTGGGCC TGACCAATGG GTGATTACAT TTAAAAACCA AAACAAAACA AAACAAAATA CCAAGAACAG  
ATCATTGCC ATGGACATCA GTAATCIATT GGTAAATGGT AAAATTTCAT GAAAAATTCC CCTAAACCAT AACAAAACT  
GTCTCTTA CCCCAAAAGT GCTGGAGGGA AAGATGGTTG CATGGCTTIG ACCTCTCTTT GAACTTGAAA TGCTACCTTC  
CTACCCGGAA AATGCGGCAC ACTATACTT

SEQ ID NO:1703: (Length of Sequence = 419 Nucleotides)

GAGCCCTGC CTCCAGAAG CTCACATCCT CTACTCATG GCAGACAAAT AAACGTGAAT TACACTGCAG GGAGGTAAGT  
GTGGCAGCAG ATGTAGTATG CAGTGACAG GTGGCCATGG TTGCTAGGGC AAGGAGGGCT TCCTAGCATG GCGGTTATTT  
GACCAGAGGC TGGCGGTGCC TTTTGCTAGC AGTGTGATTG TATCTGAGC CAGGACAGA TACCTCTNG AGCCTTGGTT

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TCCTCATCTG TAAAGTGGTT AAAGACTGAN TAAAGCAAAA TATGTGCAAA CAGTCTGTGA ATGGGGAAGT AACAGATGTT  
GCTTCTTATT ATGTTCTCTC CTAGCCATGA ATATCAATTA TTTCAAGAAAT GAAAAGGGAT CCTGCACCCA ATTTCAAATC  
AAGCAAGTTC ACCTAGAGG

SEQ ID NO:1704: (Length of Sequence = 372 Nucleotides)

GCTTCCCGAA GGTCTTGGAC GAGCGCTCTA GCTCTGTGGG AAGGTTTTGG GCTCTCTGGC TCGGATTTTG CAATTTCTCC  
CTGGGGACTG CCGTGGAGCC GCATCCACTG TGGATTATAA TTGCAACATG ACGCTGGAAG AGCTCGTGGC GTGCGACAAC  
GCGGCGCAGA AGATGCAGAC GGTGACCGCC GCGGTGGAGG AGCTTTTGGT GGCCGCTCAG CGCCAGGNTC GCCTCACAGT  
GGGGGTGTAC GAGTCGGCCA AGTTGATGAA TGTGGACCA GACAGCGTGG TCCTCTGCCT CTGGCCATT AACGAGGAGG  
AGGAGGATGA CATCGCCCTG CAAATCCACT TCAACGTCA TCCAGTCT TC

SEQ ID NO:1705: (Length of Sequence = 426 Nucleotides)

GATGCCITAT TTAGTCCATT TGGTGAGGTA ATGTTTTCTT GGATGTCTT GATGCTTGTA GACATTTGTT GATACCTGGG  
CATTAAAGNG TTAGGTATTT ATTCCAGTCT TCACAGTATA GGCTTGTITT TAGCCATCCT TTTTGAGAGG ACTTTCCAAG  
AATTCAAAGG GGATTGAGTG TTGTGACCTA AGCCTATGGT CACTGCAGCC ATTTACAGCAC TAGAGAGTGC CCTAAGCCCC  
GGAATGCTGC AACTCTTACA GACTCCTTGA TACACAGCTT TGGTAGATT TGGGAAAATA AGGGAGAATT CCCTGGGGTT  
ACCAGGTAAA AAGTCTCTCC CACTCCCTC TCTTCTGGC AAAGGAAGTC AGTCTCTGCA CCAGGCTGCC TGGAGTTTGG  
GGGAGGGATA AGGCGGTCAC TCTAAT

SEQ ID NO:1706: (Length of Sequence = 412 Nucleotides)

ATTTTATTC CTTACATCGA AGAAAATGTT AAAGAGTATC TNCAGACACA TTGGGAAGAA GAGGAGTGCC AGCAGSATGT  
CAGTCTTTTG AGGAAACAGG CTGAAGAGGA CGCCACCTG GATGGGGCTG TTCTATCCC TGCAGCATCT GGAATGGAG  
TGGATGATCT GCAACAGATG ATCCAGGCCG TGGTAGATAA TGTGTGCTGG CAGATGTCCC TGGNTCGAAA GACCACTGCA  
CTCAAACAGC TGCAGGCCCA CATGTGGAGG GCGGCATCA CAGCTGGCG CATGAAAGCA GAGTTCTTTG CAGATGTAGT  
TCCAGCAGTC AGGAAGTGA GAGAGGCCCG AATNAAGGTG TACATCTATT CCTCAGGGAG TGTGAGGCA CAGAACTGT  
TATTCGGGCA TT

SEQ ID NO:1707: (Length of Sequence = 434 Nucleotides)

GTGTGCTGC AAAAAAAAAA AAGATTCTAG GCATGGTGGT GTGTTGACTG TAGTCCAGC TACTCCAGAG GCTGAGGTGG  
GAGGATTGGT TGAGCCTGGG TGGATGAGG TGCAGTGACC CATGATCATG CATGGGAGAC AGAGCAAGAC CTGTCTCAA  
GAAAGGAAAG AAATCACTGG CTCTCTGTG AAAAAATGAT TGTAAAGAGT AATTGAAAAA ATAAATACAA GTAATAAAT  
AATCTTTCAT TTAAGAAATA CTACCAAAT TAACATGGAG ATCTAGCAA AAGTCAAAAG CAGCTNGGCG TGGTGGCTCA  
CACCTGTAAT CCTACACCT TGGGGAGGCT GAGGCGGGAG GNTCGCCTGA GGTCAAGAGT TCGAGACCAG CCTGGCCAAC  
AGAGCCAAGT CTCTACTTAA ATACAGATTA GCTT

SEQ ID NO:1708: (Length of Sequence = 440 Nucleotides)

GGACCAGGAC TCCAGCACCT TCCCTGGCTG CATCAACAAAT GCCACACTCT TTCAAGATGA GATAAACTGG CGCCTCAAGG  
AGGGACTGGT GGAAGGCGAG GATTATGTG TGCTCCAGC AGGTGCTTGG CATTACCTGG TCAGCTGGTA TGGTCTAGAG  
CATGGCCAGC CACCCATTGA ACGCAAGGTC ATAGAGCTGC CCAACATCCA GAAGGTGAA GTGTACCCAG TAGAACTGCT  
GCTTGTCGG CACAATGATT TGGGCAAATC TCACACTGTT CAGTTCAGCC ATACCGATT TATTGGCCTA GTATTGCGCA  
CAGCTCGGGA GCGGTTTCTG GTGGAGCCCC AGGAGACAC TCGGCTTTGG GCCAAGAACT CAGAAGGCTC TTTGGATAGG  
TTGATATGAC ACACACATCA CGTTTCTGA TGCGCCCTT

SEQ ID NO:1709: (Length of Sequence = 404 Nucleotides)

TTTGCTTAT GTAGAATTGC CTATAGTAAG AAAACCCAGT AGAGAAAGTG GTTTINAGAC CATTGGGCAG CTGCTTTGGA  
CACCTGGAGC CATTTCTTTT ACAGATGAAG ATGCATTGIG TCATTGTCTC AGGATCCTCG TCCTGTTGCT TCTCTGGCCA  
CAAATTGTC TTTACCAAAG ATGATTTTAT TTCCTGTCT TTGAAATCA TTCCTTATAG GTAGAATATG AAGATTCTCT  
GAAATGATTC CAAAATGCCA AACTCAAACA CTATTGTCCG ATTTCTTTAC TTGCAACAAG AGAGTAGAAG GGACAGTATT  
TGTTTGTGA TGTTGGGGCG TTCATCAGGG AGAGAATTIG AGATAAGTAG GAATAGCAA TAGGAATAGT GAAATAACCT  
AGAT

SEQ ID NO:1710: (Length of Sequence = 187 Nucleotides)

GGTGATCTGC CGACCAGAGG CCTTAACTC TGGTGTGAG TACTACTGGG ACCAGCTGAA CGAGACGGTC TTCCTGTCC  
ATCCAACAG CAGGAGCAGC GAGCGSCTGG ACCAGGCAGA GCACATGGAG GACAGCAGAG ACATGGGCTG ATGAATGCAT  
TGGGCTTCAG CGACCTGCA CTCAGTG

SEQ ID NO:1711: (Length of Sequence = 313 Nucleotides)

AGGGGCATGT NATCATTINA ATGATGINAT CTTTGGTGT TOCCTCATTA GCTGTAGACT ATCCCTCTC CTCCCACCAC  
AATGTTTCTA TGATGAGTTA CAAACAGAAA GGAAATCACA TTTTCATACT AAAACAAAA TGATCAGAGC CTGTATTCT  
CCACTAGAAA CTACACGTAC AGTTAAGAGT CCACATGCAA CACCTTAAAT CACAGACTGA GGACCTCACA TTCGTACCTG  
GGAGTCTCCT CCCCTTCCCC AGCCTTGGGC TAGCTTTGGC CTAGGCTCAG GTAATACTGA CCCCCACAGG CGT

SEQ ID NO:1712: (Length of Sequence = 202 Nucleotides)

TTTGGTGGT TTCTCTTTA TTGRTGCCT CTACCTTCC CCCACAATTT CAGTCCCTTC CAACACCCCA AAAAGAAGGA  
GTGAAAGGAA GGGATTGCTG GGGTCTGAG CCCTTGGCAG TCAGAAGGAC AGAACCAAAC ATCACTGGAT GTGACACAGC  
TGCATCAAGA AGTCTACAGC AGTATGGGAA GCGGCAGAGA AG

SEQ ID NO:1713: (Length of Sequence = 253 Nucleotides)

TGATTCANIG GGTCTGGGAT AGAGTCTGGT ATTCTGCATT TCTGACTAGC CTCCAGGTGA TACTGATTCT CCTCATCTAG  
GGACCTCGCT TTGAGTAGCA AGTGTMTAGG CCCTTACTA GCAGGAAC TA AGCACAGTAT CCTACAACAG CAAATGTCTT  
TCCAACAAGA AAGACGAGAG CAAATNCTGA TGCCACATCT GCACTGCCTC AGAAAATAAA GAAGGGATGA GGAGCCCCC  
AGTGGCACTC TGT

SEQ ID NO:1714: (Length of Sequence = 299 Nucleotides)

GGTGCAGCTG CTTTGAAAA TGACTTGGCA GCACCTCAA ATGTTAAACA GAGTTACCAC ATGACCCAGT AATTTACAC  
TTAAGGATAT ACTCAAGAGA AATGAAACT AAAACATAC GGCTACCCAA AAACCTACAT AAGANTGTTT ACAGCAACAT  
TATTCATAAT AACCAAAATA TGGNAACAAC CACAATGTCC ATCAATTGAT AAMTGGGTAA AGTCTGGCAA ACTCACAGRA  
TGGATATTA TTTGGTGGTA AAAAGGAGTA AAGAACTSN ATGTACTACA ACATGGGTG

SEQ ID NO:1715: (Length of Sequence = 371 Nucleotides)

TTTTTTTTAC CGGGCGTTC CTGAGTTTAT TTGGGGCACA CCGGACGAG GCGCCTGCAC CTAGAAGAAG GTGTGGGCC  
TCTTGGTGGT GAAGCGTGGC TTGTGCTGAC GGCGAGGAC CCGGTGGGC AGCGGAACT TGATCTTGA GTCTGGAAC  
TGCTTGACAG CGGCCGGG GCCTTGCTG GCGCGATCT CTTCCACCTT CATGATCTGA ATGGAGTGGG CTCGGCGCG

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GTGCGGGCA CCCATGCTC GGTAGCACTG GGTGACAGG CCTGCGGTGG TCAAGTCCCG GTATTCCCG TACATGTTGT  
GGGTGCGGCT CCGGGAGTCA TAGCGCAGCA AGATCCCGAA GTTCTTCAAC C

SEQ ID NO:1716: (Length of Sequence = 265 Nucleotides)

GTGCAGAATC TGCTCCTGGA CACCCACAGG GGGCTGCTGT ATGCGGCTC ANANTCGGGC GTAGTCCAGG NECCCATGGC  
CAACTGCAGC CTGTACAGGA GCTGTGGGA CTGCTCTC GCGCGAACC CCTACTGTGC TTKGAGCGC TCCAGCTGCA  
AGCACGTCAG CCTCTACCAG CTCAGCTTG CCACCAGGGC GTGGATCCAG GACATTGAGG GAGCCAGCGN CAAGGACCTT  
TNCAGCGCT CTTCGGTTGT TTCCC

SEQ ID NO:1717: (Length of Sequence = 350 Nucleotides)

CAGCCCCGC AGCCCTCTGG CCCCTCCAT CTCCTGTCCG TTCCACCCA CCCCCCTCCT CGGCCGAGC CTTTCCCGG  
TGGGTGTCAG GNTCACTCC ACTAGGGACT CTGCGTAAT TACCTGAGCG ACCAGGACTA CATTTCCAA GAGGCTCTGC  
TCCAGGAGTC CAGGAAAGAC GAGGCACCTT GGCCGCGGG CCTGCTGGA CTGTAGTTG CCTAGACAGG GCACACCTT  
GCACCTCCG ACCCGCGTG GAGCGCGGT GAGGTTTGGT GTCTCGAAGC AGCAATTAA AAGCAAGAGG ACTTCATGAC  
CACCATGGAC GSCAATTAGG AGAAGATCAA

SEQ ID NO:1718: (Length of Sequence = 379 Nucleotides)

GACATGGAGA CTCACATGGC TGCAAGAC TGTCAGGTGA CCTGCAAATG TAACAAGAAG TTGGAGAAGA GGCTGTTAA  
GAAGCATGAG GAGACTGAGT GCCCTTTGCG GCTTGCTGTC TGCCAGCACT GTGATTTAGA ACTTTCCATT CTCAACTGA  
AGGAACATGA AGATTATTGT GGTGCCCGGA CGGAACATG TGGAACATGT GGTGCAATG TCCTTGTAAG AGATCTGAAG  
ACTCACCTG AAGTTTGTG GAGAGAGGG GAGGAAAAGA GAAATGAGT TGCCATACCT CCTAATGCAT ATGGATGAAT  
CTTNGGTCA GGATGGAATC TGGATTGCAT CCAACTCCT CAGACAAAT GAGGGCTCT

SEQ ID NO:1719: (Length of Sequence = 197 Nucleotides)

CCTATATTTG TTTAATTTAT TTAAGACCAC CTCCTTACAA CTTCAGAGA GAAAATACAA AACAAGAAAC AGACTTGGTT  
TCAAATGCAT AACCAGGTGC TGGAGTTAA AGCAITACTG ATAACATTGT TACAGAAGAA TGGCAGCTTA CTCCAGGGCA  
CTTCAGTATT CCTGAGGAAT AACATGATT TCGGAAG

SEQ ID NO:1720: (Length of Sequence = 203 Nucleotides)

GAGGGCGGG CAGAGGGAGC ATGACGGGA GAGTGAGGAG GAAAGAGGAA AGGAAGGCCA GGTGGGAGG AAGGATCANC  
TAAATCTGAG GGAAGAAGAA GGAAAGGAGA GGCCTATTT CATAGCAGAT GCAAATRAAG GNCITGGG CTAKTCAGGA  
AGAAAGGGA AGGAAGGAA GGCAAGAGAG AGGGGTGAAG GGA

SEQ ID NO:1721: (Length of Sequence = 326 Nucleotides)

GGTGACGGA TGTTTAATGG CAATTCGTAT AAACCAAGCC CATGCACAAG TAGAAAGTGC CCGTGGAGCC GGCAGGAGGC  
CCCCCGCG NTAGAGAACC ACAAGCCCG CCGTGCAGCC CTCCCGCG CGCCTTAAAT AGATTCTTCA CTATACTCTG  
TATGTTACAG TATGTACAAG ACCCTCCCC TCGGGGAGC GGGCGGACTN CGCAACGNT TCCTATGTAC ACCACCTCCC  
CTTTCGGCCC TGAGGTCA GTGCCAGAGT GGTGATGGG GTAAGANAG GCCAGAGAGG GAGGAAACAG ACCCAAACAT  
GCGGAG

SEQ ID NO:1722: (Length of Sequence = 291 Nucleotides)

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TGTTTTTAAA AATGAGAAAA TTTGGAGAGA GAATACTATT ATGTCAACGG TACAAGACTC TGAATCTTGA AGATGTAGAT  
 GGATATAATA TTTAGACTTT ATATACACCC ATAGATATGT ATTTATATAT GCATACGTTT TGTATAAATT TACAATTGAC  
 TTTTGTATT CTCTTINCTG TCATTACAAG AATGAGATGG AAACCAAAAT AGTTGTNCCA TCCTCTTACC CAAAGAGGGA  
 TACTGAAAAG TCCGGTATGT GCATGCACCT GTTCTCTGG GGTCAAATCT G

SEQ ID NO:1723: (Length of Sequence = 369 Nucleotides)

GATTGCCCGC TCCCTCGATT CCTTCCTGTT GTCTCCAGAA GCTGCTGTGG GCTTGCTAAA AGGGACAGCA CTGTCTCTAG  
 CCGATTACC TTGGGATAAG ATTACCGAAT GTCTTAGTGA ACTATGTTCT GTTCAGGTTA TGGCAITGAA AAAGCTGTG  
 TCCTAAGAGC CCAGCAATGG CATATCCTCA GATCCCACAG TGTTCTTAGA TCGCCTTGCA GTGATATTTA GGCATACCAA  
 TCCCATTGTG GAAAATGGAC AGACTCATCC GTGTCAGAAA GTCATACAGG AAATATNGCC AGTTTTTATC CGAGGACTCT  
 AAAATAAGCA CCGAGCTGNA TAATCGGATT GTAGAGCGTT GTTTGCAGG

SEQ ID NO:1724: (Length of Sequence = 231 Nucleotides)

ATGTATTGTT AGTTCGATT CTTCAAATTT TATACATATT TACTTTCTGT TAAAGAGAAA AGGATAAAAT GGTATAAAAA  
 AAGATAAAGC TATTAATTAA GCACGAGAGA GAAGATAAAT GGATATTTTC CCTGTGTGAG GCTAAGACAG AWGCAATCT  
 CGTTANGAAA AATGCCACCC ACACAACAGG AANTTTATCC AAAACAAAAC AAAAGCAGTT ATAGANCCCC T

SEQ ID NO:1725: (Length of Sequence = 317 Nucleotides)

GTGCAGGGTA GGGTACATAT GGCTCTGTCA GAAGAATACC ATGATTTAAG GGAAGAAAGT ACACAAGGTA CATGGAGGGT  
 ACACAGGGAA AGTACATTA TAAACATGGA CGTGTGCAAA TAGGAAAGAC ATGACTCAGC ATGCTAGACA AATTGCACAT  
 GCCTACCCAA ACACGCTTA GGGCAGACCC ATGACCATGA GAGGGGCACA CGTAGCTGTG AATGCAGGSC ACCCGAGAGC  
 ACATGKTACT KAACATGAAG AAAGCATACG GGAAAAGCGT GTKTACACAT GNGCATGTTT AGTGGGGCAC ACGCAGG

SEQ ID NO:1726: (Length of Sequence = 282 Nucleotides)

CTCTGAACC AGATGAGCAG CCACCGGAAA CAGAAGCAGA GAGAGCGGA GTCCTGGGAA TCCAGGAAGT CGCAGAGCAG  
 GGGGTCCAGC ACCCTCAGGA GCAGCAGCAG TCGCCCGAKT TGCCGCTTCA TGGTCTCCTG GCTCTCTTCA AAGTTCCCTT  
 GCACGAGCTC CATGAAGCCA CAGAAACACC AGAAAGCATC CACCTCGTTC TGAATGACGT AGAGGATCGG GGAGAGAAGA  
 TCATCATGC CCTGGACGTA GCCGAGGTG AAGTGATACA TT

SEQ ID NO:1727: (Length of Sequence = 285 Nucleotides)

GAGTATTGAT TTCAGGCAGG ACCCAGGTCC CAAAATGTTA GAAACAGTTA TCCTTTTCC CTCTGAGTTC GTTATTCTCT  
 GGGGCCCCAG TATCCGTGGC TTAACAACCC GGCTGGATAG AAGGCACCTC TTTCCCCACG TTCCAACAAG ATCCCAGAGC  
 TGCTTCTCAT TGGCTCGTCC CTGAGTCAGT CACACTGGAC CGGAAGGTGA AAGGCCCTCA TTGGCCAGNC CCGAGTCATG  
 TGCCCAACCC TGGGGATCCA GCTGTGGGNC TNCITTAACA GCATT

SEQ ID NO:1728: (Length of Sequence = 394 Nucleotides)

TTTTTTTGAT GAGGAGATAT AGCAAAGGGT CATTTGCCCC TCCTTCAGAA AACTTTTCTC CAAATCTCCT TTAACATAC  
 TGCCTTATCT TTCCCTCCAT AACTCCACCA GTCTCTCCAC ATCCCCCTCC AAATCTCTGT ATACATAGGC AAGAGAGGGC  
 GATTCCAGC ACAAGTCTAG TCCTGGGCGA AACTTCCATC TCCTTCTCG CATACCTCCT GTCTGGGTAT GGGGATAAGG  
 GAGAGTATGG GATTTTGTTC TCCATTACAT GCTTTTCAA AATTTCTGTA ATATGTGGCA CTTATAAAAT CAGAACAGAC  
 AAAATGATAT CGGGTAAAC ATGCAACTGA GAGCAATTTG GGGAAAAATC CTCAGNCAC AAAATGTATT ACTG

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SEQ ID NO:1729: (Length of Sequence = 301 Nucleotides)

GGAAGTTAAA GTATTTATTG ATGTGTTTAA ACTGTGTACA TTCTCCACAG ATCATATTAA GNGTITTKTA GKGGAAGTTT  
AATCTGTGCA TAGTGGGTAG YGACATGAWT AGGGTCAAAG GGGAGGYAAA AGGAAAAAAA CAAAACAAAA ACAGTCACAG  
GAAAWTAAAA ATACACOMCA GGTACCAGA ACCTTCAGGT TTAAATATAA ANGNAAGNAA AAGCAGAAGC AGTGAGCATC  
GGCATCAACC TGTACAAGCA TTACAAAAGG CTCCTGTGAC GGAAACACAA TTGTTCAAAG G

SEQ ID NO:1730: (Length of Sequence = 312 Nucleotides)

GACGRACGCT CTGCCCACGC CCTGAGCGTG TACACATGAT GTNTTCTATG CATTCACCCCT GCCCCCAGC CGCCCTGCA  
GAGSACAAGA TGGGTGGCCC CGGCTCCCTT TCCCCTAACC GCCCCTGCC GCTGTGCAGC CGTGTGCGTT GCGGTGTGTT  
TCTGTGTAC TGGCGTGTCA CGTGATGTAG CGTGTGTGCG TGACATGAGC CCGTGGCCCC TTCTCTGTTT CTCGGTGTGT  
TTCTAGAGCT CTCTCCCTCC CCTCTCAGA GGGGACAGGA CTCCTGGGGT CTGGCTCGGG CCCAGAGCCA GG

SEQ ID NO:1731: (Length of Sequence = 392 Nucleotides)

ATCGGCTATG GGTTCGGTG CGTGACAGAG GAGTGCCCGC TGGCAGTCAT CGCTGTGGTG GTTCAGTCCA TCGTGGGCTG  
CGTCATGAC TCCTTCATGA TTGGCACCAT CATGGCCAAG ATKCGCGCGC CCAAGAAGCG GGCGCAGAGG TTGCTGTTC  
GCCACCACGC GGTATTTTCG GTGCGCGACG GCAAGCTCTG CCTCATGTGG CGGTGTGGCA ACCTGCGCA GAGCCACATT  
GTGGAGGCC ACGTGGCGGC CCAGCTCATC AAGCCCTACA TGACCCAGGA GGGCGAGTAC CTKNCCCTGG ACCAGCGGGA  
CCTCAACGTG GGCTATGACA TGGGCTTGA CCGCATCTTC CTGGTGTGCG CCATCATCAT TTTCACGAG AT

SEQ ID NO:1732: (Length of Sequence = 352 Nucleotides)

GTACCTAGTA CCTTAGATAA AGGGAAATGT GTGATTCITA ATGAGCTTTA AAAGGAAACA ACTTCTTTT TTTTTTTTTT  
TTTTTGAGAC GGAGTCTCAT TTTTGTCCCC CAGGCTGGAG TCGAGTGGCG CGATCTCTGC TCACTGCAAG CTCGCGCTCC  
CGGGTTCAGC CCAATCTCCT GCCTCAGCCT CCGAGTAGC TGGGACTACA GGCTCCCAACC ACCAGGNTCG GCTAATTTTT  
TGTATTTTWA GTAGAGACGG GGTTCACCG TGTTTAGCCA GGATGGTGTG GATCTCCTGA CCTCGGTGAT CCACCCACCT  
CGGCTCCAA AAGTGCTGGG GATTACAGGC GT

SEQ ID NO:1733: (Length of Sequence = 321 Nucleotides)

TTTTTGTMIT GTTGTGTGT TTGTTGCGAG AGTCTTGCTC TTGATCTATC TOCCAGGCTG AAGTACAGTA GTGTGATCTC  
GGCTGTGCTG ACCCTCTACC TOCCAGGTTT AAGCAATTCT CATACCTCAG CCTCCTGAGT AGCTAGAACC ATAGGCACAC  
GCCACCATAC CTGCTAACTT TNCTATTTTT AGCAGAGACT GGATTTTGCC ATGTTGGCCA GGCTGGTCTC GAACTCCTGG  
COGCAACTGG ATCTGCCCAA CTCAGCCTTC CAAAGTGCTG GGATTACAGG CATAAGCCAT TCATGTGCGG TTKTTCAACT  
G

SEQ ID NO:1734: (Length of Sequence = 208 Nucleotides)

AAGTCAACGT ATCTATTTTT ATTATGAAAC ATTAAATTTT GACACATTGC CTCATTTGCT TTTTAAAT CTATTATCTG  
ACTTAAACCT ATTCAGCAAA AATGCCAATA AATTATATTA ATCATACTTT GGGTCTTTTT AAAACTAGGA ACATAATATG  
TTTTATGATA AACATAATA CTAAATCTGA GTTGTATGAA CTGTTAAC

SEQ ID NO:1735: (Length of Sequence = 347 Nucleotides)

TCTATTACCT GTACAGTATG GTTTATAGT TGGTGAGTTT CTAAGGGGGA AGCCGGCCAG GGAGCGAGCC CAGAACGGAC  
CGGACGCTG TNCACCCCA GCGCTGCCCC TTGGCCCGAG AGGCCTCAGC CCTGGGGAGG GAGGGGGCAC TGGTGCCCCC  
AGCCTCTCCA ACCCCCAAAC TGCTGCTGCG GGGAAACCCC CCCACCCCGC CTCAGAGCC CTCCCCCTTG GACTAGAGCG

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GCTGGGCAGA GCTCTAAACA GGGGCAGGG CTCCTCTGCC AGCCTGTGGG CATGGCAGTC ATTCTTGAA GGGGCAGGAC  
CTCCGGCCTT GTCCATTTTCG GGGGGAA

SEQ ID NO:1736: (Length of Sequence = 356 Nucleotides)

GACACAGGGA GGGGAACAAC ACACACTGGG GCCTGTITGG GAATGGGGGG TGAGGGGAGG GAGAGCATCA GGACAAATAG  
CTAATGCATG TGGGGCTTAA AACCTAGATG ATGGGCTGGG CGTGGTGGTT CACGCCCTATA ATCCAGCAC TTGGGAGGG  
TGAGGCGGGC GWTTCACGAG GTCAGGAGAT CAAGACCATC CTGGCCAACA TGGTGAACC CCGCTCTAC TAAAAATACA  
AAAATTAGCC AGGCATGGTG GTGGTGGCT GTAATCCAG CTAATCAAGA GCCTNAGGCA GGAGAATCAC GTGAACCTGG  
GAATCGGAGG TTGCAGTGAG CCAAGATCAT GCCACT

SEQ ID NO:1737: (Length of Sequence = 324 Nucleotides)

TGTTTTCTAA TGATTTTAA TTTTTCAGAG GAAAATAATT TCAAGAAATA AAACCTAATT CCCCTGAGTC CTTATTGAAT  
TAAATATGA AAAACAATGA ATGAATGATG CATTCCTATT AATGGACTGT AAGAACTGA TATAATGGAC TTCATTCTAC  
AATTCGGITT CTTATGTCT TACACATGCT CCTCGAAGCT AAACATTTTA GGACCTTAAC ACCATTTCCC TAGTACAATT  
ACTAAAAGAA AGCTTTGGAT AATATAATAT CAGGGAAGAT AGTACAACAT AGTGAAGGAT GACATAGGAG AGATGTGAGG  
AGCA

SEQ ID NO:1738: (Length of Sequence = 316 Nucleotides)

GGCACCCCTGG GCATGTCCAG CCTGGAGCAG CTGGAGCAGA ACTTGGCAGC AACAGAGGAA GGGCCCCCTGG AGCCGGCTGT  
CGTGGATGCC TTTAATCAAG CCTGGCAATT GGTTGCTCAC GAATGTCCA ACTACTTCCG CTAGGCCAT CATGGCTCAG  
GCTGCCAAG GCTTTTNTGT CACCTCTTTT GTTCTCTCAC ACTGACCAGT CTGGCCCTTA AGCTGACTTA GAAGGGTTTT  
TCTGAATGT CTAGATCCAT GCATTATTT TCTAGCTTCC TGCCCTGCTC CCTATTCACT TTACTGTG AAAGGT

SEQ ID NO:1739: (Length of Sequence = 398 Nucleotides)

CAAAAACCAT CTCAGGATAC TGAGAAGCCT CTGGAACCTG TGAGTACTGT TCAGGTAGAG CCTGCAGTTA AGACTGTAAA  
CCACAGACT ATGGCAGCAC CAGTAGTCAA AGAAGAAAA CAACCTGAGA AAGTCATCAG CAAAGACCTT GTTATAGAGA  
GGCCTCGACC AGATTCAAGA CCAGCAGTTA AAAAGAATC AACTTTGCCT CCAGGACCT ATTGGAAAGA AGCTAGAGAG  
AGAGATTGGT TTCCAGATCA AGGATACAGA GGTCGAGGCC GAGGTGAATA TTACTCCAGA GGGTCGAAGC TATAGAGGTT  
CTTTATGGGA GGGGCGTGGC AGNGGGTTGG TAGGGGGACA CACTTCGAGA TTATCCTCAG TATANGGGGC AATAAGCC

SEQ ID NO:1740: (Length of Sequence = 376 Nucleotides)

GAATAAATTC GCAAACTATG CATCTGACAG AGGACTAATA CCCAGAATCT ATAAGGAACT CAAAAATCA GGAAGAAAA  
AAATCCCATC AAAAGTGGGC TAAGGACATG ANTAGACAAT TTTCAAAGA AGATATGCAA ATGGCCAGAA AGCATATGAA  
AAAATACTCA ACATCCCTAA TTATGGGGA AATGCAAATC GAAACCACAA TGCAATACCA CTTTACTCCT GCAAGAATGG  
CCATAATTTA AAATCAAAA AATAATAGAT GTTGGCGTGG GATGTGTGA AAAGGGAACC ACTTTTACAC TGCTAGTGGG  
GATGNIAAC TACTTCGGCT ACTATAGNAA ANCAGGATGG GNGGATTCCT TAAAAG

SEQ ID NO:1741: (Length of Sequence = 322 Nucleotides)

CAATGCAA AATCAAGACT TGTCATAAAN TGATGTCCA TAGCCTATAC TGTTTAAAT ACINTAACIN TATAGTAAAT  
CTTGATGTTT AATACAGCAA ATGTTAAACC AAGCTTTTAC TACAGAAATA AACAGAAAT TATAGGCGCT CATTATCCTT  
TTAGACAAAG TTGTATTTGC TTGTCTATTR TTTTGTGTTA GNTTTKTC AACTATTTCA CAAACAGGNA CAWRATATT

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TAAATTGTTA ATAGAARTTT CCAGTTTTCT TTAGTCTCTG CTTACTCCAA GTACTGGTTC CTGTGAATGA CCTTTTCATG  
AG

SEQ ID NO:1742: (Length of Sequence = 322 Nucleotides)

CCCCCAGCC AGGAAAAAAA AAAAAAGCTT TGAGGAATGA GAGAGGGTGA GATGGGTGCA AGAAGGTGCT GGGCAGCCAC  
GGGCGCCACG CCTCANTGGC CCCAATTGCC GAAGCCGATC TCCTGCTTGT ATCTGTAGT GAGGATGTTG GCTTTGCGCG  
TNAGTTTCGA GAGCACAGTG TGCAGCCCGC GCAGGTGGTA GTGGAACATC TGTTCAGGT CTTCTTCGCC GCGTCCGAA  
CCCTCCAAGT GCGCCAGGTC CACCAGGATG TCCTTGGGAC TTCCAGGCAC TGCCCTNCTC GNTCCCAAGC CGGTNGGAGG  
CG

SEQ ID NO:1743: (Length of Sequence = 250 Nucleotides)

ATGGGTAGGG GCGCAACGCA GTCACCGCCG TCCGAGTCA CAGTCCAGCC ACTGACCGCA GCAGCGCCCT TGCGTAGAGC  
CGCTTGACG GAGAACACTG AATTGCCAAC GAGCAGGAGA GTCTCAAGGC GCAAGAGGAG GCCAGGGCTC GACCCACAGA  
GCACCTINAG CCATCGCGAG TTTCCGGGCG CCAAAGCCAG GAGAAGCCCG CCATCCCGCA GGNCCGNTC TTTGAGCGAG  
ACGNGAGTTT

SEQ ID NO:1744: (Length of Sequence = 247 Nucleotides)

GATGATTGAG TGTTCCTTTA AAAATAAAAA CCCACAAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA GTGTAACAGG  
TTAGCCATTA ACACAGNATA AAGAWGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCCAGKCT GGTGKCCGA  
CGTCACAGTG GATGGCCCTG CGTGGCTGGG RCACAGACAG GNGCAGGCA TGGCACCTTT CENCAOCAG AGCAAGCATA  
GGCTGTA

SEQ ID NO:1745: (Length of Sequence = 379 Nucleotides)

TTCTAAACCA GTTAATAAAT TCATCCACA AGTATTTACT GATTACCTGC TTGTGCCAGG GACTATCTC AGGCTGAAGA  
AGGTGGGAGG GGAGGGCGGA ACCTGAGGAG CCACCTGAGC CAGCTTTATA TTCAACCAT GGCTGGCCCA TCTGAGAGCA  
TCTCCCCACT CTGCGCAACC TATCGGGGCA TAGCCCGAGG ATGCCCCCAG GCGGCCCAGG TTAGATGCGT CCCTTTGGCT  
TGTCAGTGAT GACATACACC TTAGCTGCTT AGCTGGTGCT NNGCCTGAGG GCAGGGCAGG AAAATCAGAA TAGCATTTGC  
TTTCTCTGGG GCAAAAATGG GAAAGTTCAG CGGNGNCAG CAGGAATCAA GTGGGCAIT

SEQ ID NO:1746: (Length of Sequence = 472 Nucleotides)

TTCATGCTGT CCCTTCATTG AATTTTAGAA TGATTGAAGA TAGTGGGAAA AGAGGAAATA CCATGGCAGA AAGAAGACAG  
CTGTTTGCG AGATGAGGGC TCAAGATCTG GNTCGCATCC GACTCTCCAC CTACAGAACA GCATGCAAGC TTAGGTTTGT  
TCAGAAGAAA TGCAATTGTC ACCTGGTGA CATATGGAAT GTCATAGAAG CATTGCGGGA AAATGCTCTG AACAACTGG  
ACCCAAACAC TGAATCAAC GTGTCCGCT TAGAGGCTGT GCTCTCCACT ATTTTITACC CAGCTCAACA AACGGGNTGN  
CAACCACTTC ACCAAATCC ATGTGGAGCA GTCCATCAGN CTNCTNCTTA ACTNCTGCT TGCAGCGTTT TGAINCCGGA  
AGGCCATGGT AAAAATTTCA GTATTGCTT GTCAAAAANG GGTTTITAGG NCCATTTGTG TGGGAGGGGA AG

SEQ ID NO:1747: (Length of Sequence = 351 Nucleotides)

AGGATCAGAA TACTTTAATA AGATACCACT GTCAAAATAC ATTTCCCTTAT AAAGTTAAGC TCCCATACAG TTATAATGTT  
GTCAGTAGGA ATTCGACAAT ATAATAACGT TCATGAAATC GTTACGTTGA CAGGTAGGGT TAATATGAAG CTTGGAATAT  
TTCCAGTGT TTTAGTAAAA CTGCAAGGGT AAAATGCCCT TAATGCCAGG GCAACACACA CAGGNAATCA AATACCAGCA

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TTTACACGNC AGTAACCCCTT CAAGTTCCTC CACCCCTGTG GGGGGTAATG CCGTGCAGCT AAAAATATGG GTTTTACGNA  
ACANCCATGG CCTAAGGGGA TTTCTCATAG G

SEQ ID NO:1748: (Length of Sequence = 428 Nucleotides)

AATAGCTTCA GCTGATTGGG TGAGTCTTAT TCATGTTATA AAAGGTACTC TGCTTTCTT AACATTCCAT AAATCTTAAT  
CACATCTGCA AATACCTTCA CAGCAACATC TAGACTAGTG TTTGACCCAA CAACTGGGCA CAATAGTTTA GCCAGCTTTA  
CACATAAAAC ATCATCACAC TATGCTTCTC TCTGTGTTT TTTGTTACCA CGTATCTGTT CCATGTGTTT TNCCTTGTAT  
ATATCCTATC CTGTATATC TCTCCTATGG TTTTGTTGAA ACTATAAGCC TTCTGGGGGG TAAACACTA TATCTTTGTT  
CAATTGTTAA TACATCGNAT AGCATATCAT GCTTGGGGG ATTGTTTAA CCCCCATTT AAATACAGCT NGGCAGCAGG  
ATTTTAGGCA TTCCGTCATG GTGTGCCA

SEQ ID NO:1749: (Length of Sequence = 478 Nucleotides)

GGTTTCACCA TGTGGCCAG GTTGGTCTCA AACTCCTGAC CTCAGGTGAT CCACCTCAGC CTCCTAAAGT GCTGGGATTA  
AAGGCGTGAG CACNCACAT CACACCTGGC CCTCAACCAT CTCCTTCACC TTCTGCTCAT GACAGTTTAC TAGAATTTTT  
TTCCCTTGAG ACTGAATCTT AAGTCAAAA CAATAAAAA TTGCTAATCA TTACTATGAC TCCAGAGCTA CTGTCTCTT  
TAAATATTC TGAANTTATA AAATATAAAG CCAAAGCAAT GAATTTCTAA TGGTGGAAAT GTAGACACTG TGGGCCCCCT  
GGGATGTTA TTTTCAGATG GGGCAAGGG ATATTCTTAA CCTATTTTAA AAATCATGCC AGCCTAGATA ACTATGTGAA  
AATATATGG GGTGCTTAGC AAACTATTA CCTAGCACCC CTTTGGCAGT TTTACATTAA AAATCCCTTT ATTAGGTT

SEQ ID NO:1750: (Length of Sequence = 439 Nucleotides)

GACATTTTAT TTCCAGGTG GCACTGTAT AAGGCACAGG GGCAATGGC TTTGGGGTCC TGGAACTGGA AATGGAGACA  
GGTGTGCTC AGGTGTCCCT GCCTCCACCA CCCCCTAAGT GCATTGAGA CAGGACCAGT GGTGGTGGTT CCAGCCCAGG  
GTCTGAAGG GINCCACTGG CTCTAGGGGA GAGCATGGG GACAGCTCCC CAGGCGGAC CCTCTACTCT CCAGCTACCC  
AGGAGGGACC CINTCTCCT AGGGGGCGAG GCCAGCTCCA AAGTCTTNG TGGCTCCCCA GGCTTAAGGG ACCAGNCTGC  
CAGGGAGGGC TNGGNTCANA GAGAGAATAG TAAGATNAGA CGAGGAGAAG CACCCCACTA GCAAGGCGAT TGGANAACAC  
TNTCGGCGGT ACTCGTCATG TGGGTAAITTT GCCAANTTC

SEQ ID NO:1751: (Length of Sequence = 347 Nucleotides)

CTCTATTACT TATGATTACA CCATGGCAAT ATTCTTTTT CACCAGGAGC TTTGGACCTG CGCAGGTGTG GGCAITGAAT  
CACCCGGAGC ATGTAGTCAT CTGTAGAAAT CACAGGCACA CTCATGTTTG CTCTGGAAGG AATCTGTTTT CCACAATGAC  
TCCCCCAGC TAATGTACAC ACTGGCATTT TGCAATGCTT CCTCACACAT GGGGCACCAG CCTTGCTTCA GAACCAACCA  
AACTCCACAG AGGCCCTTAA ATATGGGCTA GGGACAGATT TTCTTTAAGA AAGAGTTAAG GANGCAGCTT ACAAAGGGAC  
AAGGCAAATT CCACAAGTCA GGCAGCA

SEQ ID NO:1752: (Length of Sequence = 297 Nucleotides)

GGATATTCTA GCCATACAGA TTCAATGGAA CAGAGAAGAG AAAGGAGGTT CCATTGGCAC CATAGTGAGC CATTCAATTTG  
CCCAGGAAG NNGGTGGGG CTAAGGGGCT AGGTTTGGTC CCATGGCTAC ATTAAATGCT TGGCATGACT CCAGGGCTNC  
TCTAGTTAGT GGCTCCAGCA CAGTATGAGT TAGGTGAGTT AGGTGTAGGA GTTTGGGGAC AAGGAAAAAG GGAGGAGGGG  
TCCCTAGAGG CTNGGTGCCC ATTACATAGA CTCAAAATCG TCAATGCGCT GCTTTAG

SEQ ID NO:1753: (Length of Sequence = 402 Nucleotides)

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AAATTTAACT TCAACAAGCT GGTGATGCCC AACTACCCAT TCATCAACAT TCGGTCAAGT GGTGTGGTTC CTCAGAGTGC  
 ACCACCAGTG CCAACAGCCT CTTCOCGGTT CCATTTCOCA CCTCTGGACA CCCATTCTCC AACCAATGAT GTGCAGCCGG  
 GACGGTTCCT TGCTAGCTCC CTAACCTGCTT CTGGCCAGGA GTCCAGTAAT GGTACTGATA GAAAGACTGA GCTTTCAGAG  
 CTGGAGGATG GCTCAGCTGC TGA CTGGCGC CGGGGTGTGG ATCCCGTGTG CTCCAGGAAT GCCATTGGTG GAGGAGGGAT  
 TGGCCATCAG AAACGCAAGC CTGACATAAT GCTTCCTCTG TTTGCTAGGC CAGGGATGTA CCCTGACCCC ACAGTCCTTC  
 GT

SEQ ID NO:1754: (Length of Sequence = 397 Nucleotides)

CAGTGGCATC TATGGCTCTA AAATGGAAAG GAGGAGTCCT GGATTACGGC TACTGACTTA CTCTGTGAAT TTACACATAA  
 CTTCCTTTGA GCCACAGATT TAGCATTTCTA CCAGTCACCT GATATTTCTG AGCAGCCACA ATATTTTAAA ACTATATTTA  
 AATCTGAATT TGGATTTAGC AGAATTTTAT TTTTTCAT TCTATTTTCT ATGGTCACTA AATTGAAATT ACAACCATTG  
 TAAAATTGA TATCATTTAA TATGTAGGAC TTTATCCAGT TTCAAAGTAA AGATGTCTCT AATGTAATTA ATTGTNATTT  
 TCACTGATGA GACTGAAATA CAATCAGTCT GTATTGTGTG GTGCGTATGT ATCAGTGGTA AGAGGCTATG ATTAGAC

SEQ ID NO:1755: (Length of Sequence = 353 Nucleotides)

GAATTACTCT GTTGTTCACC TTTTGCCTTT TGCACGTGTT GTNCTCTAT CTGTATTTTG AGCTTAGTGC TAGGACTGAG  
 AGGCTGCACC ATAGGGAATG TATGGGAGAT GGTGAGGGT GCCAGTNAGG GGTGCGTGA GGAGAGGCCT GGGCTCCTCT  
 ACTGGATCTA CACTCTGTCC CAGGTTTTTA GATCCCACTG AGCCCACTG ACTGAAAACA AGGACAGTCA GGTGAAACT  
 TCTTTTGCCA GAAGTGTGGC CTGAGTTGAA TTTCTGGGAG GATGACGCAG ATGTCTGCTG CAGAGCTGGG CTGAGAGTTC  
 TNCATCTAG CTCTGACITA GGTCAGGGG CCT

SEQ ID NO:1756: (Length of Sequence = 184 Nucleotides)

TGGGCTCGGA GCATCGAGCT GGACATGCGC ACCATTGCCA CTGCACTGGA ATATGTCTAC AAAGGGCAGC TGCACTCTGC  
 CCTTCTTAG CCCCCTGTTCC CTCCCCAAC CCTATCCCTC CTACCTCACC CGCAGGGGNA AGGAGGGAGG CTGACAAGCT  
 TTGAATAAAA CACAAGCCTC CGTT

SEQ ID NO:1757: (Length of Sequence = 425 Nucleotides)

ATTACAGGCG TGANCAACAC ACCTGAGCTA ACTTCCTGGC TTTTCAATCA AACCATCTTT GTACATTCCT GTCCCCACCT  
 GAAGTCAGAA AGCCTGAAGA GAAGACGGCT CTATTGCCNC AGCTGGAGTG TGGTGGCACA ATNTCAGCTC ACTGCAACCT  
 CTGCCTCCTG GGTTCAGGCG ATTCTCCTGT CTCAGTCTCC TGAGTAGCTG GGATTACAGG TATGCACCAC CACGCCCTGC  
 TACTTTTTCG TATTTTTAGT AGTAGAGATG GGGTTTCACC ATGTTGGCCA CGCTGGTCTC TATCTCCTGA CCTCGTGATC  
 CACCTGCCTC AGCCTCCCAA AGCGCTAGGA TTACAGGCGT GTAAGCCACC ATGCCCGGCC AATTTTGCCA GTTTTATATG  
 GGCTATTCCT TATTGAGATC TAGGG

SEQ ID NO:1758: (Length of Sequence = 407 Nucleotides)

AGGAAGGCAT AAGCTAAGCA TCCTTCTAAC CAGTTCCCAA AGTCCCATCT GCCTCCATGT ACCAGCTGAT CGCAGAGCTG  
 GACTGGGGCA GGCTGGGCTT CCAGGAAATT CCTGAAGTTC TGAAACAGCT TCCCCTCTAG AGAAGCCCCA CCAATGTGTT  
 TTTTAGTGAC AGGAAGAAAG GAGGGAAGAG CTGATGTGGT GTGGCTGCC CATATCATAC AACCCACCA GGAGCAGGGC  
 AGTTCCCAAG GTGGGTGCCC GTAGATCTGG GAGGCCAGGC TGGCATGATT CCTGTGAAGA ACTGTGCTG TNGTCTCAGG  
 GAGAGGCCTG AGCCCTCTCA GAAGCAGGGA CAGCCACAAC TGAAGAGCAC GCCAAGCTGA GGCAGAGCA GCAGCTGGGG  
 GAGCAGT

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SEQ ID NO:1759: (Length of Sequence = 386 Nucleotides)

ATATATTTTT TTGTATAAT TTCTTTGTAT TTTTTCCTG CAAGACTTGG TGTGGGGC ACTGTGTAG TTTAACTTCA  
 ATCCCAAATT CCATGAAATA GAAATCAGAA GTAAAGGTTG AGAGGGGAGG AAGGAGGGAG GCAAGCCAAG GAATAAACAA  
 GAGTTTGA CT AGAAAAAAG AAGAGGTAT GTGTGGTGGG CATTCCTGGG CAAGGCCATT CCTTGAGGGA GGGGGTTGGC  
 AGGCAGCTTG CCTCTGCCCTC ATGCAGGGGA GGGAGGAAAG ATCCCTGGG GACCTGCAG TCCCTCTTC CTAGGGCTTC  
 CTGCTCCAG GGGAAAACT AATACCAGAG AGGGATCAGC CACAACCTNA AACAGGGCTC TTCACC

SEQ ID NO:1760: (Length of Sequence = 395 Nucleotides)

CTTCATGCCT CTGGCCGGT CCAAGCTGGC CAAGAAGAGG GAGGAGGCCA TTGAGAAGGC CAAGCGGAG GCTGAGCAGA  
 AAGCCCGAGA GGAGCGAGAG GNGAGAAGGA GAAGGAGAAG GAGCGGAGG AGAGCAAGAG CGAGAGCNTG AGGCAGAGCG  
 GCGGGCTAAG GCGTCCAGCT CAGCGCATGA AGGTGCGCTC ANTGACCCAC AGCTCAGTGG TCCTGGCCAC ATGCGGCCAT  
 CCTTCGAGCC ACCACCAACC ACCATTGCTG CTGTGCCCC CTACATCGGG CCGACACAC CTGCCCTTCG GACTCTGAGC  
 GAGTACGCCC GGCCCCAGT CATGTGCCCC ACCAACCGNA ACCAACCCIT CTACATGCCC TTAACCCAG GACC

SEQ ID NO:1761: (Length of Sequence = 378 Nucleotides)

CCCACCAGAG CATTTCAACA AGGCTTACCA CACAGGCCCC AGTACCTTTC TACTCTACAA TGAGGCTCAG AAGCTCAGTG  
 TACCACCCCA TCCCAGGAG GCCCACTAG ACCAGAAATC CCAAGTCCAT TAGCTACAGG CTGATATTCA GGGACATCGG  
 TGTAACAAA GAAGTGGGAT ATGAATATA TCCCTGATTT TTTTTCCTT TTTTTCCTT TTTTTCCTT TTTTTCCTT  
 TCTTGTCCCC CAGGCTGGAG TGCAATGGCG CGATCTGGC TCACTGCAAC CTCGACTCT CAGGTTCAG AGATTCTCT  
 GCCTCAGCT CTTAACTGGG GTAACAGACA CTGCTACCA TGCCGGCTC ATTTTTTT

SEQ ID NO:1762: (Length of Sequence = 351 Nucleotides)

TGATAAATAA AGAAGTTCAA AAAATCTTT TAATAGAAGC TATAAATAG CAGATAAGCT AAGTCATTCT CATAAACAC  
 CATTTGTCTT TTGAATGCGT GCATTGTGGC CTGTTACTTT TAACTAGTCT CACTAATTTA TAGTTATATA TGATGTAGAT  
 CTAGATTGIG ATGTACACTA AGTGGGTGA TCCYAGATC AAGCTATGAT TGCTGCTGC GTAAAGTGT CCYTTGGGA  
 AATAAATAAT CTTTCATATC TGTAACCTTT GGTATAATTG GTTATTTATG CAATGTATTG TTGTGGTTGT CAACTCAAGA  
 TTGTATTCTC ATCTGGGGAC ATTATGAATC T

SEQ ID NO:1763: (Length of Sequence = 157 Nucleotides)

GTTGTACTT AGTGTGTAAG GTGAACAAGA AAAGCAGCAT AATAAAGGAG CTGTGTTTT ATCAGAGGAG CCTTCCTTCT  
 GAGTTTTTAC ATAAGTTGAT GCCTTCACTG CAACTTTGAA TACAGTGCTT TGAATGTGA AACACTTGAA TAAATG

SEQ ID NO:1764: (Length of Sequence = 321 Nucleotides)

GCTCCTCTGC CTTCAACTCC TCCAGCTTCT NACCACTTGG CAACGCACCA CTGCCAGTTC CTCTGGGGCT CTCAGAATCA  
 CTGGAGTACT TCTGCAGCTC TCTTGGATGA CCTAGGGGTG CAGCAACAGG CACAAAGCTC TCCTCCAGGT CCTGGATTTC  
 TTTATTTCTT CCTTCTCTC TCCTGGTGT ATTTCCTG TGAGNGTCTG ACTCTATCAC TTTCAAAGCT GTGCTGTGGA  
 TTTGGGTCTT TAGATGAGGC TTCATGCCCT GGNATAAGCA AAGGAGCCTG ATACAGAGTT GGCCTGCAGG GAGCAGCTTT  
 T

SEQ ID NO:1765: (Length of Sequence = 420 Nucleotides)

TCAAGCCCTG NATCTTAGCA CTTGGGAGG CCGAGGTAGG CAGATCACCT GAGGTGGGA GTTCGGGACC AGCTGCCCCA  
 GCGCGGAGAA AACCGTCTC TACAAAAAT TTTAAACTT AGCCAGGCGT GGTGGCGCAT GCTGCAGTTC CAGCTACTCG

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GGAGGCCAAG GCTGCAGTGG GCTGTGATTG TNOCACTGCA CTCCAGCCCA AGTGACAGAG CAAGACTCTA TCTCAAAAAT  
 CAAACAACAA CAACAACAAA ACACCACATA CACACACACA ATGAGGGTAA ACAAATAAG TATGTGTGGG TCACACTTCA  
 GCAGGGGTG CTGGTTTGCC AGAGGAAAGT GCAATTATTT TATCTATGGG TGTATTATGT CTCCACTCTA AACTGTCAGT  
 TACAGATGGC AAGACTGTTT

SEQ ID NO:1766: (Length of Sequence = 373 Nucleotides)

GTAAATACT AAGACACTAA ATGCGTATTT TAAATTTGCC CATTAAGTTT TGGGCTGGT AAGAAATTAG TAAAAAATAT  
 TTCCAAATAA CATGCAGAAG TTGTTTTAA ACTTAAATC TCATATTTTA GCTACACCA CAGCGATGCT ATAGAGAGGA  
 GCTGGATTC GTGTATCTG AATGGCTCAG ATTATGTTCC TTCCAAAAA GTTATTTTAT GTACGATCAT TTTTATATG  
 ANGCATATGA AAAATCACC AGAATCTACC ACGTATTTAC CACATAGACA AATGTCCATC TTTAGATCTG TCATTCAACA  
 CCAATGTTATT CTTTTATG CACAGAATGC AGTGTGTGA GAAGTACATC AAG

SEQ ID NO:1767: (Length of Sequence = 330 Nucleotides)

GGTGACAGTG GCGGCANAGC AGCAGCATGG TGGCAGCCAC CAGTGGGCCT GGGGCCCCCG GGGGAGAGGA TGCCCCAGAG  
 GTGCATGAGC AGACCTCGTA ACOGTCTCC GAGCGGCTCT GTTCATGTTG TCTTGAGGG GCGCGGGGCC CCTCTGCCGC  
 GTCCAGCCC GCAGCCACAG ATCCATCGGC CTGTGAGTCT CCACACACCA GCCAGTCCCG GCGCGTGAC TGTGGGTACC  
 CGGTGCCAC CTCCAGCTCG CCATCCAGCA CTCTCCAGTA CTCTGGCCA CGGAAGAAGT AGGAGGCACC GINGGACCAG  
 CGCATGGCGT

SEQ ID NO:1768: (Length of Sequence = 361 Nucleotides)

AACTGGA AAA CCAAGACTGG TAGACTCTCT TTTCTTCAG ACAATAGGCA GGAGCCAGGC GGAGTCCAGG GATTCTTGGA  
 ACACCTATCT TTTCTTGGG GGACACTAAG TTCTATTGA AGACAAAGTT CAATATGGCA ACAGGACTGA TGGGACACGA  
 AGGAGTCCCT ACCGTGATTT GGTGACAGTT CTTCAAAACG ACAGTCTCTC AAGGAAAGT GGACCTAGGA ACTCCTGAAC  
 TTTTGGGTG CCTAAGTGA GAAATCAGCA TGGCTCAGGC AAGTCTCTG GCTGTGAAG GCTAGCAGG TGTAGTTTG  
 GTTCCCACTG CAGCCAGCAA GAAGATGATG CTGAGCCAGA T

SEQ ID NO:1769: (Length of Sequence = 389 Nucleotides)

CAACTACCGC AGCGCCAAC TCAGAGAGCA CATCCAGCGC CGGCACCGT TTTCTTATGA CACTTTTGTG GATTATGATG  
 TTGATGAAGA GGACATGATG AATCAGGTGT TGCAGCGCTC CATCATCGAC CAGTGAGCAG AGTCCGTGCT TGCTATCTGT  
 CTCATGTTAC AGAGCTTCCA TTACATATTA AACGTGAAAT CTATGACTCC TGTACCTTAC CTGTTCAACA GACCTGAAAA  
 TGAGCCATGG CATGGGACA GGGTCACTTC TGACAGGGGA AGTGGGTCCC CAGGTCAGCC CTTCTCTTCC CTTTGGGCTC  
 TTGCCAAGN TGCTTCCCC TACTGTTAAN CTTGTTTGT ACACGGTGA GTTCTGTTG GGTCTCCG

SEQ ID NO:1770: (Length of Sequence = 394 Nucleotides)

GCAGTTTAGA GGAAGCTCCT TCTGGCAAG GTCAGCGGT CCTCCTCCC TCTCTCTC CCCTTTGTCC CAGCCTCAAC  
 TGACTCTGGC TGTGGAGGT GTGGAGGTC CTTAGGCTTC CCTCCCAAC CTGGCTCCA CCAACACCCC TAACAGGAGG  
 CCGTGGGAAG GCTCAGCTTC TCTCCGCAT CCTCTCTCT TCTGCTTAT CGGAGGGAGC CAGGGTCCCC TAGGCTGACC  
 CTGAATCTC TTCTCTCCT CATGGGAGG GGGCAGGAAT CCAGAGGAGG ATGAAGCCAG CGGACCACA TGGCTTNGTG  
 GCTTNGACAA ACAAGCTCAG GGAGGAAATG AGGAGGCGNC GCCTTCAGAG GATTGCAACC CTGTTGGGCA CAGA

SEQ ID NO:1771: (Length of Sequence = 373 Nucleotides)

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CAGAAAAGGC AAAGTTTATT CCAGTGTGA CAGAGAGAGG GTGAGCCTTG CACAGCAATT CTAAAAACAT GTCATCTCCT  
 TCACCTAAGA GGTAAAGANCC GGTGTAAAGT CATGGGGTCA CTAAACCGGC CGCAGTTACA GTAAGCAGAA GAGGTCACGG  
 CTCAGGCCTT CTCAGACTTT CCTGGGACA CACGGCTCTC TGGGGGGGCC CGGCGAAACC ACTGGGACCA GGAGCCATCG  
 TACACGGCCA CATCAGGCTT NCCGCAGAGG TAGGCAGCCA AGGNCACGTG GCAGGCGGTG ACTCCCTTGC GGCACGTGGC  
 AATGAGAGGC TTCGAGAGAT CCACCTTCIT GGGCTTGAAC AGAGCACGGA GCT

SEQ ID NO:1772: (Length of Sequence = 281 Nucleotides)

AAAGTGTGG GACTATAGGC GTGAGCACTT GCATCCGGCC TAGGTGGGGT TTTGTCCCG TTCTGCAGGA GGGAGACTGA  
 GGCTCGGAGG TTCAGGGCCT GCTGGGCTGT ACCCAGCCCC AGTATGTGCC TTGGCCACAC TAGTCAGATC CTTCCCTCC  
 CACTCTGCC ACCCTGCTCC TGCCCTGTCC CATAATCCAG GTTGAATGGG GGTGGGGATT TTNGGGAGCA AGGAGGGCTC  
 AAAGAGATGG AGATAGGCT GTTGTGAGGC CAAAAGTGCA A

SEQ ID NO:1773: (Length of Sequence = 401 Nucleotides)

CTCTCTGCCA TGCTAACCA CGTAGAAGAG AATAAGATAA AGCAATGAAA AGCAGAGTGG CACTCTGATA TATAAGATT  
 TCTAAGAAAT ATAGAGTGAA TTTTGCCCA AGGCCCTCAC TGAAGTAATT CCTGAACCA AAGAGTATTT CTTAATCCAA  
 AACTTTACAG TATTAGACCT ACGAATTCTG ATGATGCTG ATCAGATGCT AGTTGTCTC GACAATCCAT GCAGTTTTC  
 AGTATGAAGG AAAGTAACAA ATATACCATG GTTATTCITA TTTCTTCTG AAAAATATCT AGGATATTTT ATAGTGTAT  
 GTGGTAAAT ATTCAATTGA CANTCACAAT GAAGTATAAT CAGAAGTATT AGCAATTTTA CTTGTATTAT CTTGTTAATC  
 C

SEQ ID NO:1774: (Length of Sequence = 230 Nucleotides)

TCTGTTAAAA AAAAGTAAAA ATGTTACACA TAGGNAATAA ATGTAAAAAG CTATACTTTG CCAAAATAAA GTTTCAGCTG  
 AAGGTAATGC TAGTTATAAA TTAAATACAA TTCTATTAAAG NNCTTGCAAA AGTCAAAGGA AGACGGNAAA CTCCCTCTTT  
 TGCAATICA AAGGCAAGA CCTGTTCATT TATTCITTAAT TTINCTTIAT ACAATCATT TCCCCACAG

SEQ ID NO:1775: (Length of Sequence = 359 Nucleotides)

ATTCAAGACA TAGGCATGG CAAGGACTTC ATGACTAAAA CACCAAAAGC AATGGCAACA AAAGCCGAAA TTGACAAATG  
 GGATCTAATT CAACTAAAGA GCTTCTGCAC ATTAAAAGAA ATTACCATCA GAGTGAACAG GCAAACTACA GAAAATCTAC  
 CCATCTGACA AAGGGCTAAT ATCCAGAATG CTACCTAATT TTAAAGACT TTTTCGGCA TCTTGAAAA AACCACTATT  
 ATTTGACATA GGTAAACTG AAAAAACAAA CTATTCATAA TTACAATTTG TGACACATTA TGTAGTAGCT AGGTTTCATCA  
 CATAAATTAC ATGNTACCCC AGTTCAAGTT AAATTTTACG

SEQ ID NO:1776: (Length of Sequence = 375 Nucleotides)

GGCAGAGGCT GCAGTGAGTC CAGATGGTNC CACTNCACTC CAGCCTGAGT GACAAAGTGA CACTCCATCT CAAAACCCCA  
 ACTCCCCCA AAATTTTAA TTTGGTTTGC ATTCTTTGA TTATGTTGN GGTGATTGA GACTTGAGGC TGGCACTGGA  
 GCAGGCGTTC CCACCTGTCC CGTGAGGCAA AGGTGCTGGG GAGTGACCAA GTGCATCAGG GGGTGAGAT GCCCTATTCT  
 GGCTCTTTCA CGCTCAGCCA TCTTAGCATA NGTGAATATA CCATGAGCTG TTTCTCAGCT TGTTTTATT TCTGGNGAG  
 ATAGATGICA CTGGAATGGN CTTTNTCCAA GTGAAAGGCC ATCTTGTGCT ATGAC

SEQ ID NO:1777: (Length of Sequence = 387 Nucleotides)

GATAAGGGAG GAAAGGCAGG AGGAGATGAG GCCAGCCCCA CTGATGACAC CTTGGGCCAG GCCTCAGAC TGCAAGGCATC  
 AGCCGGAAC TCCAGGCTGC TCATGGTCAC TGGCGGTGCT GAAGTGTCTC TCCACTTNT TTTGGTCTT GATCTTGAGT

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CCAATGTCCA CTCTCTTCTC AAAGAAGTTC ACCAGCACGG ACTCCGTCAG GATGGAGGCC AGGTTCTGCT CAAAGGAGAT  
GCACCACTCG GTGTGACCGG TGCCGCCGAT GCGCGCTGTG GGGCTGCAGG CCTNCCCGCC CACCAGCACC GTGTGCTCTG  
CAAGGTCTTC ACATTGCAGG GAGCCCGTNC TGACCACCGA GTAGGAGGAC ATGGACATGT CGTCTTT

SEQ ID NO:1778: (Length of Sequence = 297 Nucleotides)

CCCCCAACT AGAAGAATAC AATTAAAAA AGAGGCAGTA CACATGGTTA ATAAACAGAT GAAAAAATTA AAATTCACIT  
GTACTATAAG ACAGGCAGAT TAAATTATTT TTACCTATCA AATTAACCAG AACAAAGGCA TGCACTTTAG TGAGGATGAG  
GAACATACAG ATTCACCTGGT GAAAGTAAAT GTACACACAA CCTTTCAAGT TGATAGTTTG GCAGAAGTTG CTAAAAACAT  
TTAAAGCTTT CATACTTTTG ATAAGGCTTT TTATTTTGA AAACATATAA ATAAAAA

SEQ ID NO:1779: (Length of Sequence = 353 Nucleotides)

CAGAAGTAAA AGATTTTAT TGTCTATAG ACACCTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG  
TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAWT  
GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGGAAAA AGGTGCATT CCGTAAGCTG AGGGGGATGG AATTTTCAGAA  
CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTTC AAAACAGTTC CCAAGCTTNG  
NGGAAAGCAA TGAGCTCCAC CCTAYTCAGC AGA

SEQ ID NO:1780: (Length of Sequence = 428 Nucleotides)

CGGCTTCCCC GGAGCAGCG ACAGGGCCAC AGGAGAATGG TATGCTGCTC GGCATGGAGT GAAGACCACC CCGTGTGCAA  
TCTGTCACC TGTGGGTTTG ACCGGCAAGC CATTTGGTTGG AACATCAACA TCCCTGCATT GCTACAAGAA AAATAAGGAC  
ACCGGCAGCC CITAGTTTCA CTGTTTGCCA GCACAGACCT TTGATGGGTG CAGGCTTTTC TGGTATTAA TCAGCCATTT  
TTGTGAGAGT TTGACCTGG AAAGGGTCT TTGTATATGT TCTTTTACA TAGTGCCAG CTGTCATGAA ATGTACAGAG  
AAATGTGTGG TCGTATTTT TACTTTTGTG TTGTATATGT ATGGATAAAT NGGGTCCCTT GGGCAGTAGA GGCAAAGCTC  
ACCTCCCATG TAGCACATGA AAATGCTT

SEQ ID NO:1781: (Length of Sequence = 459 Nucleotides)

ACCTCAGATT GTGAAGGGCT CTGTAGGCTA TGTTAAGGAC ACTAGAAATC TATTGAAAGG TTTTAAGCAG AGAATTGACT  
TGCTCATATT TTINCTTCAA AAAGCTCAAT AGCTACAAAA CGGTCAANTAG ATGGTAGCTT TGTGGGGCTG GGGTGAATGC  
AATGATATTG CAAAACAAGA TATAGGGAGA CAAGAACTTT TAATAACCTA AACCAGTGGT TCTCAAACIT TCCATGCATC  
AGAATCACCT GGATGACTTG CGAAAACACA AATAATCAGA CTTAATCCCT ACATTTTCTG ATTTAGCAGG TATAGAATGA  
GGTTTAAGAA TTCTTAACAA GTTCCAGAT GCGTAAGGT GTCTCTCAGG GTTTTFACTT GAGCAACTGG GTGGATCCNG  
TGGATCTTAT GTCCCTNCGA GTAAGGGGTC AGGTACAGCA TTCTCCGTC AGATTGTTT

SEQ ID NO:1781: (Length of Sequence = 420 Nucleotides)

GAAAGCACAG GAGCCTGCTT CCAAAGAGGG ACTGTCCCGT AATTNAGAGA TGCTCCAAGG CTGACCATCC TCCTTCTCCT  
GCTGCACACC CAGCAGCCAT CTATGGCTG AATTGGAGAA TTTCTGGTCA AACCGGTGAG TATGAGGAGA GCAGGGCAGT  
TGGGAGAGA GGTCCAGCC CAATTCTGCC CAGAGAAGCT CCCAAAGAG AGGGAAGTGT CCTGATGAAG AGCCCATGAA  
AGGGGTGAGA CCCAGGAGGC TGTGGAGATT GCTGCGGCT CCCTCTGTCA GTAAGGAACC CTGACAAGAT CCCTAGGATG  
GGGGTCCCTT AGTCTCACTG AAGTCTTGT AACTINGGAT TGGGGCCAGG TCANCTCCT CTGATACCCG AGCTACAMAT  
CTGGCTTCCC AMTCTTAGAG

SEQ ID NO:1783: (Length of Sequence = 427 Nucleotides)

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AGAGCTTAGC ATGCTGTTGG TTCAATGTTT TATGTGTTTA TTTCACATTG ACTTTTGCCG TGAGCTTTGA GGGAGACAAC  
 ACCATCACAT ATGTGTAAAT TGTAAAAGAA TTGGGAGAGA ATAGCTTTGG GAGATCAITTT TCTTACTGGC CATGATGAAG  
 AAAGCTGTAT CGTAGGAAAA TTTACTAGGTA ATTTTACTICA CTGTATAAAG TTAATTTGCA AGGTATCATT CGATTGGTAG  
 AGTTACCAAA ATGAGAGTTA AAGAAACAGA AATATGGTTT CAGTTTATGG TGCATTCTTA TCTTTTTCAC TGAGTCTATT  
 TCTGTCTGGT TGCTTCACIT AGTACTCCAA CCAGACAAGA GGAAGACAAC TATGCTAGTG TTTTAGGAAA TGGGACAGAA  
 TGGGGTGATT TAAGTAGGAG CCNGGGT

SEQ ID NO:1784: (Length of Sequence = 428 Nucleotides)

ATGGGATACT AATGCAAGCA TTCAGTGAAA AAAGTAGATT ACCAACTAT ACGATCCTCA TTTATTTTAA AAAGTGATAT  
 CACCCAGAAA AAAATAAGAA AGATAAAGA TGTGGTAA ATAACATAAG AATAAAAATA TAGGGGAAAA GGTAGCCAAG  
 GGATAGATAT TGATAITCAT TTTCTTTTAA CAACTTTATT AAGTTGTAAT TTGTGTGCAA CAGATTGCAT ATATTTGANG  
 TATATACTT GACTAATTTT GACAAATATA TACACCCATG AAACCTACCAG TTATAATTTT AAACATTTTC ATGGCCCTCC  
 AAAGTTTCCT TGTGTCTTTT TGCAATACAC GCAAACACAC ACACCCACA CACAGTATGT AGGGCAACCA TTGATCTGCC  
 TTCTGTTACA ATAGGGTAGG TTTGCATC

SEQ ID NO:1785: (Length of Sequence = 414 Nucleotides)

GTAACAGAT TACATTTGAA CACCTAAATA AGTATTTGTT TCATAATCAT TACATGCTTG TTTATGATTT ACAAAGATTT  
 GGTAGAGAAA AGTACAGTCC TTAAGGCATA TATATGCCAA TGCATTAAAC TACTCAGCTT TTGTGCCAGC TCAGGTGTTT  
 ATAGGAACAG GAATGTGGAA TACCAGCTTT TTACTTTAAT TATACTTTTA TGCTGAATTT TTCTCCAGT TAAACCTTTA  
 ATTACACTAG TATGTAAAGT AGTTACTGAG AAAAATAAGT TTTTGATTTT CCTTCTGTG GATCTGTAAC ATTTTAAAT  
 GGAGCTATTT AACACATGAC ATGCTAATGT TACTTAATGG GTCTCTGCAT TTTAATTTTA NGAAACACAA ACCTGGGTCA  
 CAAAACATCT TCAG

SEQ ID NO:1786: (Length of Sequence = 397 Nucleotides)

GTTATTCCAA CCAAAATTTT CTAAGATTGA AATGCAGAAA CTTACAGAAT TGAGTAAAAA GACAAAAACG TAAATACTAA  
 ATATTGAAAA GATGCAAGTN CTCCCAAT ACACATAG ATTTAATAAA ATTCAAATTT AAAGGCAATT AATTAGGGAT  
 GAGGCAAGAA TCTGGGAAGA AAATTAATCT GAAGTTTGTG TGGAAAAATC AATGGGTGAA ACGAAATAT TTTAGGATAA  
 GATTAATGAG AAGTAAATTT ATTTCAATTA TAAANGTAAA ATGATAAAAT AGTTAGACCT ATATGGTACT GATGCCAGGN  
 ATGTTATACA AAGCTACGTC AAGGCTTGAG GATAATTTIN TTGAAGATAT TCGTGGGTAT CTCATTGGCT ATAAAG

SEQ ID NO:1787: (Length of Sequence = 408 Nucleotides)

TCCACAATT GACAATATAT ATGCAATGTT TTAACCAAA TCCAGAAAGC TTAACAATA GAGCTGCATA ATAGTATTTA  
 TTAAAGAATC ACAACTGTAA ACATGAGAAT AACTTAAGN TTCTAGTTTA GTTTTGTGTA ATTGCAAATT ATATTTTINC  
 TGCTGATATA TTAGAATAAT TTTTAAATGT CATCTTGAAA TAGAAATATG TATTTTAAGC ACTCACGCAA AGGTAAATGC  
 ACACGTTTTA AATGTGTGTG TTGCTAATTT TTTCATAAG ANTTGTAAAC ATTGAAGTGA ACAAATTACC TATAATGGAT  
 TTGGGTTAAT GACTTATGAG CAAAGCTGGT TTGGCCAGAC AGTATACCCA ANCTTTTATA TAATATCCAG ANGGCTATCA  
 CACTGTG

SEQ ID NO:1788: (Length of Sequence = 391 Nucleotides)

CAACTTGGAA CAACTTTTAA TTTTGAATGC TGGTCTGATC AGTCCACGGC CAGGGGTAGG TGGTAACTAG AAACAGCTGG  
 AAGGAGGGGA GGAGAGGGGA CCAGCAGTCC GCAAGCAGGA GGAAAGGAAA GGGTTGGGGA CAGGAGGAGG CAAGGCTGAG  
 GAAGGACCCA GCCAGCTGGG TGTCTGCCCC GGCTAGAGAA CGAACCACCC CCACCCACCA GGCTACCCCTC CATCTGTGGC

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TTCAGTGCAG AAGTCAGTCC AGGTGGGTTC AGGCCCATGC CACCTTCTCT GGCCTGCACA GTCCCAACCC AGGCAAGGGG  
TTCTTTCCAG AAAGGCTAAA TGCTCTGTCC TAANCCTNGG AAGTGTCCCT TTCAACTAAA CCCCTGGCCT T

SEQ ID NO:1789: (Length of Sequence = 312 Nucleotides)

CAGGGTGAAG TGAGCCTGTG TGGGAAATGA GTCTAGTGTG AGGAGGCCTG GCTGCTATAA TGATATTTAT CTCACAGTTT  
ATATTTCAAT CATTATATAT ATTTTITTA AAGGTTTCTT TATCAGCTAC TAAACATCTC AGCAATTTGG TGTGCATAGC  
TCTAGATTAA GCAACAAAGA ATTGTACTGA TAACAAACCA CAGGGGAAAT GGTGGTTAGT AAGAGTCAGC CTTATAAAAT  
TTACATCCAC ACTGTTTCAC AGCAAGATTG CTCTCTCCAA AACGTAGCCA TCAAAAGCAG CAAACAAACC CT

SEQ ID NO:1790: (Length of Sequence = 281 Nucleotides)

TGTTTCCYTC ATTAGCTGTA GACTATCCCC TCTCCTCCCA CCACAWTGT TCTWTGATGA KTTACAAACA GAAAGGAAAT  
CACATTTTCA TACTAAAAAC AAAATGWCA GAGCCTTGAT TTYTCCACTA GAACTACAC GTACAGTTAA GAGTCCACAT  
GCAACACCTT AAWTCACAGA CTGAGACCTC ACATTYTGAC CTGGAGNTTC CTCCCCTTCC CCAGCCTTGG GCTAGCTTTG  
GCCTAGGCTC AKGTAATACT GACACCCACA GCGCTGCTC T

SEQ ID NO:1791: (Length of Sequence = 261 Nucleotides)

AGGCAAGCA GAAAGGTGTG TTTGCCAGAC CAGCATGGGC AGCTCAGAGG GAGCAAAGCA TCCACCAGAA GAGGCTCTCC  
ATTTTITGTG AGGGCTGAC AGTTGAGATT TGAGGCTGAG TTAACAWTGG GACCACTGAA CTTTTTTCCA ATGGAAAAAT  
CACGGCCAG TCCACAGGA ACTTTGCGGC ATACCAAACA ACAWTGAGGA AGGAAGGGCC GGTGGCTCT ACCAAACAKT  
TCAGGTCCAC TGGGTGAWT A

SEQ ID NO:1792: (Length of Sequence = 324 Nucleotides)

CTCCATCTTT ATCGCTGTA TAAACATCTC TGGTCTGTAC ATACATTTCA TACATCGTAG GGTGGGAAGC GAGGGCCAAA  
GGGAGGCCCA GCAGACAAC AGCTACCCG CTTTCCCTAC AGCCTACCC GCTCTGTGCA AACCAAGGCC AACAGCTCCT  
GCTGCCCTTT CCTCCCTGGA AAAGTCACTG TTATGGGGAG GGGGCCAGG GTGAAGGAT TAGAAGGAGA TAGAGGGCTT  
GGTGGGGAGG CCACATNTAA GTCTAGATT CAAACACTGA AGCGAAACAG GCAACTGGCA CAAGCAGCAA GCTTAGGCAT  
GGGC

SEQ ID NO:1793: (Length of Sequence = 386 Nucleotides)

ACTCTTGGGG ACCCAAAGAT GTCAGGTCCC CATACTCTGA GGAATCAGGA CACAGCCCAG TGCTTGACAC CACAGAGTGA  
GGCAGCCCTT CGGGTGAGGG CCTGGGCTC GAGGGATGGC AGCCACCACT GCCTAGGCAA ACGCACTGG GGCTGAACCT  
GGCGCCCGGC ACTTINAGGA CGCCAGCACC AGTGGGCACT CGGAAGTGCC AGTTCTGGCC CAAATTTGGT GACCTGGGTC  
AGAAGGACCT TTCAGAATGA NTGTTCCTG TCAGCAGATA CCGTCAAGAC ACGGCTGGCT CTGAGAGGGG CTGGGTGCC  
GTTTGTGCTG TATTCTCTG GGGGCCAGCA CGTCTCAGAG GGTGTCCCTG TGGGTCCCG GGTCA

SEQ ID NO:1794: (Length of Sequence = 308 Nucleotides)

GGATGCTCTT TAAACATGC AAATGGGCC GGGCACAGTG GCTCATGCCT GTAATCCCAG CACTTTGGGA GGCCGAAGTG  
GGTGGGTAC CTGAGGTGAG GAGTCAAGA CCAGCCTGGC CAGCATGGTG AAACCTCATC TCTGCTGAAA ATACAAAAAT  
TGGCCAGCG TGGTGGCATG TGCCGTGAAT TCAGCTACT CGGAGGTTG AGGCGGAGA GTGTGTTGAA CCCGGAGGT  
GGAGGTGCA GTGAGCGAG ATTGCACCAT TGCACTCCAG CCTGGGGTGA CAGAGCGAGA CTCTGTCT

SEQ ID NO:1795: (Length of Sequence = 418 Nucleotides)

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GAAACGCTAA GGTTTTGACA GCGTTACAGT GAATTCTCCG GCTGTAGAGA TTGGAGGAAG TOGGGAGAAA TTCGTCTCTA  
 AGTTGTAAAG TGGAAACAGCA TTCAITTTTCT TACTGCCAAT GGAGGTTTTT CATGAATTTA CTAACCTAGT AAAAAGATTG  
 GGCTTTTTTT TTTTAATCTT AAAGGATCAC GCTTTAAACC TCTGTAAACA AGTAATTATT TGTACCACTC TCTACCCAC  
 CCTCAACAA AATAACCTAT CGGNTCTCAG AAAATAATAA CCCTTTGCCT GCCTTTGAAA TAGTTATCCT TTTTAGTATG  
 ACAGTGTICA AAAATCTCTT TCTTAGACIT GTAGCAGAAC ATAGCTATGA TGATCTGAAT TTTTCTCTTT CAGCTGTGTC  
 TAAGACGAGG GGGACTCC

SEQ ID NO:1796: (Length of Sequence = 416 Nucleotides)

CTTTAATACA TATGCAACCT TGCCATGCCT GCCAGTTAAC TCCCTCCCG CCAATGTTAT CCTCATGATA TCAGCTCCCT  
 CTGCGGCCA CTGAGCTGCC CCCCTTCTCT TCTGGGCTGG AGTAGTGGTG CCCCTCAAGC AGGCAATGGG CAGGGGGAGA  
 TCCACAATTA ATCGTCGCAG TTCTCTTAAA AGTATTAAACA CTAAATAAG CACTCTTGGG GAGTTGCAAA GGATATTGAG  
 GATGGGATGC AGTGGGAGGC TACCCCTCAT CCAAGGTACA GGCTGGAATG AGCTACAGCT GGGTCTATCG TGGGCTCAG  
 AAGGTGAAGA GGGACCTAT TCTGGGGCTT AGTGTGGGTG GGCATATCC TCCCAAACCT TGTTCTGTGG GCGATGTTCT  
 TCACATCTAG GAGAGC

SEQ ID NO:1797: (Length of Sequence = 298 Nucleotides)

AGGAGGGAAA CCAGAATCAA ACTACTACTT CTAGATGAAC ACAGGCTCTT GAGAGTCCC AAGAGAGGAG GCTGTGATC  
 CAATCTGAC TCAGACTACC TACCTGGCTT CCTGGCCCTA GGAGGTAATA ATGATAGTNT CAGGGGGTCC ATGTAGCAAT  
 CCAAGCAATT CCTGAGGTGA GAGCAAGCAA AGAGGATAGG ATGAAGGGAA GGCAGGCAAA GAATGTGCTC CTAGTAAGAA  
 GCAACTCTNT TCCACTCACT TCCTTTTGCT CTNIGGCAGG CAAGTCAACT GGGTTCTC

SEQ ID NO:1798: (Length of Sequence = 245 Nucleotides)

CTGGTCCATT TTTACAACAN ATACATCCAA AACACTATAT AATANNITTT TTTACAACAT TTCCAAATGA GAAGATTGCT  
 TTNCCCCCA CTACTGCTAT TCACACACAG TACTTCCAGG GCACAATACA TTAGGAGATC TAAAANTGCT CACCCGTGAC  
 TCTAGGCTGC TTAGGAAATG TGAAACTAG NAACATTTAT AATGGCATTG GCTCCTTTCA ATACAAGGCA ACATTTTAGN  
 AACCT

SEQ ID NO:1799: (Length of Sequence = 312 Nucleotides)

GAAATGTTAG GCTAGTTAGA AGGACACGGC AATAGCCTTG AGATTYTCAA CCAGGGTAGT GTATTAGAWG TAAAAGGAG  
 AGGAAAGATT TGAGAGTTAT CTCAGAAACA GAACCATCTA ATTTTTTTGG ACTGATTGTA CTGCTCTTTC ACTCATTTTT  
 TTATTCACTC AACAACATTT TTTGAKTENT TTGGATGGGT CAGACATTGC GCTAAGTGAA AAATAGGAAG GTAAGAAAAA  
 GAAGACTCTG AAGATGAATT CCTCCCAA AACTGAGCTA CTAGCTATTA CTCAGTGGGG CTGAAGTGAC AC

SEQ ID NO:1800: (Length of Sequence = 309 Nucleotides)

GGCATGTGAC ACTAGGCCAC AAGCGATAAG CACAGGCACC TGACTTTTAA GTTTTGTGTT GTTTGTGTT TCCCAAAGTG  
 CTGATAACAA TAACAACAAC AATAGGATTC CAACCAAGNG CCTCAAGTGA CAGCCAGGNA GAGACCTGAA GGTGGGGCC  
 ACCACAATGC CAAATCGITT CTAAAGGAAG CTGAAAAATG GGACTGTCTT TTGCCACTT CGTGTGTGTA AAAGGGGACA  
 TTTGTNCAAA CTNCCCAACC GAGTTCTAGA AGNTCTTGAC AAGGAGGCAG CATCCAGCCT TGACCAGGC

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SEQ ID NO:1801: (Length of Sequence = 166 Nucleotides)

CAAAANTTAC TCTGCAAAAT TAATATATGA TTTACCTGCT GTTTCATATA GATTTCCAAA TAGACAAACT CGGTATGCTT  
NGGATTGCTT TTACATTCTA AGTGGATTG GAGGTTGAGG CAGGCGCCAA GGAGTATGCC GAAGTTTCAT CANGCGGAGA  
TGTTGG

SEQ ID NO:1802: (Length of Sequence = 281 Nucleotides)

GGTGGATGTC TTTGGGCGCA GGATGGAGCC CAGACCCAGT GGTTACAGTG TGGAGCTCTC TCCCTGTCCC CTGACTCTGG  
CCAAGGAAGT GAATGCAAAG CAGCAGGAG GAGGCAGGGT GGGGACGGCC CTCTGAGCTC TCCGCGATGG CTGGCGTGAG  
GTGCTCTTAA GACTTCTGAG CAGCCCTGCC TTCCCTACTC AGTCTTCCCG ATCTTNTTGC CACCTTTCTG TGTGGGCCAG  
NCTCCGCCA GGTACTCAGA GCGCGCTCAG AGGGCAGGGT T

SEQ ID NO:1803: (Length of Sequence = 429 Nucleotides)

TTACAGTTA TAGTTGGGGA CATTAAACAC CTTTCTCAA TAATTGATAG ACTACTAAAT AAAAAACCAT GAAGGATATA  
CAAGAACTGT ACAACACTGG CCGGGTGTGG TGNCTCATGC CTGTAATCCC AGCACTTTGG GAGGCTGAGG CCGGTGGNTC  
ACTTGAGGTC AGGAGTTGGA GACCAGCCTA GCAACATGG CGAAACCACA TCTCTACTAA AAATACAAAA AAATTAGGCT  
GGCTGTGGTT GGCTTAATGC CTGTAATCCC AGCACTTTGG GAGGCCAAGG TGGGCATATC ACCTGAGGTC AGGAGTTTGA  
GACCAGCCTG AAAACATGG TGGAAACCCA TCTCTACTAA AAATACAAAA ATTAGCTGGG TGTGTGCGT CTGAAAAAAT  
TAGGTAACT CCGTCTCAA AAATAATAA

SEQ ID NO:1804: (Length of Sequence = 278 Nucleotides)

GACCTGAAGC TCAAAGTCTC TCTCCTTACA CAACCAGCGN CAACAGGGCC AAGCTACTGG CTAAGAACAG ACAAACTTTC  
CTGCTTCAGA CCACAAAGCT GACCCGINTT GCCAGACGCA TGTGAGGGG CTCTTACAG CCAAGGAGGG CCGCCGAGC  
GNCCTATGCT CCTATCAATG CCAATGNCAT CAAAGCAGAG TGCTCCATTG GNCCTCTTAA GNCNCNCAAG ACTCCATTNA  
AGATTCAACC TCCTGGTGGC GCTGNCCTG GGAACAT

SEQ ID NO:1805: (Length of Sequence = 349 Nucleotides)

GCATCCATGG CCGAGGGCGG CAGCAGGAGC GCGGGGAGG GCGGGGCTCC GCAGGTCTGA ATCTGAAGGA GTGGCTGAGG  
GAGCAATTTT NTGATCATCC GCTGGAGCAC TGTGAGGACA CGAGGCTCCA TGATGCAGCT TACGTGGGG ACCTCCAGAC  
CCTCAGGAGC CTATTGCAAG AGGAGAGCTA CCGGAGCGC ATCAACGAGA AGTCTGTCTG GTGCTGTGGC TGGCTCCCTT  
GCACACCGTT NGAATCGCG GCCACTGCAG GCCATGGGAG CTGINTGGAC TTCTCATCC GGAAGGGGGC CGAGGTGGAT  
CTNGTGGAGC TAAAAGGACA GACGGCCCT

SEQ ID NO:1806: (Length of Sequence = 403 Nucleotides)

GTGCACTGTG GCCAGATCTT TTCTAGTAAA ATGTGTGTTA CTGATGGGCA GACAGCTCTC ATTCAAGCAG TGACAGATGT  
AAGCCTTCC CATTTTGTG GCGCCATGTT ATTGAGCGTG TGGCTTCCAA GTTGCTGGG ATCATCTCCA CCCAGACTAA  
GGAAGAGGAA AGAGCTTGA CAACTGCACT TGGCTGGTTT TNATGGATCA GGCAAGGAAT TGGCTCCAAC ACATTAGCTC  
ACATTCCATT GGTAGAACT GGGTTCTCA ACTATTAGTA CAGGGTGGT GTAGGGTTT GGCACCATGG GCAATTGAGC  
TGGCCAAAGG CTAATCAGAG TTAGAACAAA GCCACAAAGC CTGTGAATGG TGTTTATTGT TGTGAGGAGC TGTCTGTGTC  
ATT

SEQ ID NO:1807: (Length of Sequence = 426 Nucleotides)

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GTCTCAGCT TCACTCTGGC ACCACTGTGA GCACCGGGAA ACCTACCAGA AGTTGCTGGA GGACATCGCT GTCTTGCAAC  
 GCTTGGCTGC CCGCTCTCC AGCGAGCTG AGGTGGTAGG CGCCGTCCGC CAGGAAAAGC GCATGTCGAA AGCAACGGAA  
 GTGATGATGC AGTATGTGGA GAATCTAAAG AGGACGTATG AGAAGGACCA TGGCGAGTCA TGGAGTTTAA AAAGCTTGCA  
 AATCAGAATT CAAGCGCAG CTGTGGCCCC TCTGATGGG TCCCTCGCAC GGCACGGTCC ATGTCCCTCA CGCTGGGAAA  
 GAATATGCCT CGCCGGAGGG TCAGCGTTGC TGTGTTCTT AAGTTTATG CCCTGAATCT GCCTGGGCAA ACTNCCAGCT  
 CATCATCCAT TCCTCCTTAC CAGCTT

SEQ ID NO:1808: (Length of Sequence = 431 Nucleotides)

GGTACTTTTC CATTTAGATT CAAATGGAGC TAAATTAAG AGTTTTATGA GCTGTTAAGA ATGAGGTAGT TTCTCCTAGG  
 ACCCCCCAAA GACAGTGCAA GTAATGACCG TTGNGTCTC ATTCGTGCGAT CTTTGATAGT ATGINCTGGA GTCTACTCCC  
 CAGGAGCCAG GACAGCGGTG AAGATGGAGT CCTGTGCGCA GCTGGAGCCT TGCCTAGCTG GTGATCACAC AGCCTGNGCT  
 GTACCTGCAC CCCACTGGAT GGTGGTACAT GGTGGCAGGG ACAGGACCAC ACCCAGTTAA GGCCAGACCA GGCTGAGTGT  
 GACCCCTGAG GTAAACACTT CACTAAGCTG TGTCTGTTC ATGCCCTTG CTGAGTGAAA GGTGAGTCCC GAGACCAGTT  
 GGGTACCTCT CTTATGCGAA CCAGAGACAT T

SEQ ID NO:1809: (Length of Sequence = 401 Nucleotides)

CGTGAGGCTT TGAGCACAAG TGCAAGCGGG ACATCCTGCT CGGCCGGCTC CGGAGCTCGG AGGACCAGAC CTGGAAGCGG  
 ATCCGGCCCC GGCCCACTAA GACCAGCTTC GTGGGCTCCT ACTACCTGTG CAAAGGAGGA GATCGACGTG TGGACCGAGG  
 AGCGGAAGGG CACCTCAAC CGGACCTGC TCTCGACCC GCTGGGGGT GTTAAGCGCG GCAGCTCACC ATCGCCAGC  
 TCTGAAGGA GCACAGGGC ATCTTCACCT TCCTCTGCGA GATCTGCTTT GACAGTAAAC CCGGATCAT CAGCAAAGGC  
 ACCAAGGACT CTCGCTCTGT NTGCTTCAAC CTGGGCTGCC AAGAACAGCT TMTACAACA ACAAGTGCCT GGTGCACATC  
 G

SEQ ID NO:1810: (Length of Sequence = 233 Nucleotides)

AAGTGCTATA TTCATTGTAT TATAGAGAAG GTTGGGGAGC ACAGAAGAGG ATCAACCCAG CTTTAGAAGG ATTAGAGAAA  
 GCTTCCAGAG GGTGGACAT TTGAGCTAGC AAGAAAGCAC AAGGGAAAAG GCATTTAGAC AGAGGAGACA ATTTGTCTGT  
 ACCCAGAAGC ATTGGGGTAT GCTATGCATG GATAGNCAAA GAATTTTTC AAAAGGGGG CCAGCAAGGC ATT

SEQ ID NO:1811: (Length of Sequence = 423 Nucleotides)

CAAAGAAAGA GTTGAACATAT GTACATTGAA AAAAGGAAAG ACATTTTTC ATACCAACCT TTCCCTAGTT CGCAGTTTCT  
 GAATAGTAGA AACAAAACAC ATTTTAAAT CTTCTATCA ATTTAATTTA GGACGAAGTA ACACAACCTT TATAATTAAC  
 CACTGAAGTT GTCTTTAAGG ACAAACCTTA AATTTTAAA TGGGTGTAC CATATTINAT GAGTGGACTG ACTCCAAGGT  
 TGCCTTGCTC CAAGNNTGG CATCGTGACA TTGCCGTGAT GCCCAGAAGA AAGTTAATGG CAATGATGTC CAGTCAGAGG  
 GCAGACATGC TACACATCAC AATGATGAGA GCTGCGGGAT TCTGCCCTCT TCAACTTCCA AGTAGNAAT TATTATTTTC  
 CATTCAAAC TACTGGGAGT GAG

SEQ ID NO:1812: (Length of Sequence = 394 Nucleotides)

GACCAGCCTG GCAACTTAGT GAGACTCTGT TTCAGGAAAA AAAAAAATAA GTGTATTGG CTGTCTGAA GCAGGCCATC  
 ATCACCCTTC ACCTACCCA CAGGTGGCTC TCGGGGCTG GTCCATGGC GCTGTGGCG TNAGGATGGA GTCTAGCTG  
 TGACCTGTGC CCAGGAGGGC GTGATCCGAG TGAAGCCCCA GGTCTCAGAG AGCAAGCTGT AGCCAGAGGT ACCAGCTTCG  
 CCTGGGGCTT CAAGAACCTC CCATCTATCC CCATTCCTGA GACAGGAGTT ACAGTCCCTT TTGGNCTTNA CATCCAATAA

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AGAGACTGAT ACCACTGGAG TGGCTGGCTT TTAATTCGCC TGGGCCAGAC CTGCAGCCTT GCCTTAATCC TTAA

SEQ ID NO:1813: (Length of Sequence = 344 Nucleotides)

CATCAGCGAC AGGTCTCCCT CCCAGAACCC CATCAGGACA GGAGAAAAGG CAGCAAGAGA GGTGGGGTGG TCCTGGCACC  
TGGGCCACCA GINTTCTGAA TGAAGAGTGA GTCCCGGGTC AGGAGTCCAC ATCAGGTGTG GGCTGCTTCC AATCTGTAGG  
TTCTCTCGGA GATTNTCACA ATCTGCCAGC TCTCTGGGAA TCACAGAAC ATCATGTCCC CTAGGATGG CAGAAGATGT  
GGCAGACCT CAATCTCCAA CACTGAAACA CTNAGAGAGC TTGATACGTT CCTAGGCAG GGCAGAAACA TCACAGCACT  
TCACGNTAGG AACCACGAAA GAGT

SEQ ID NO:1814: (Length of Sequence = 442 Nucleotides)

GACACAGCAG GCCCCTGCCC CTGAAGGAGA CTGCATTGGA ATTTTGTCCA GGTGGCCCTG ACACATAGGA ATGCCCAACT  
ACTGTGACTA CCCTCTGAGA TAAAAGCTG TCCTACTGAT TTTAGAAGGC CAAAATTAGA GGTCATTTTG GAGGTCAATG  
CAGTGGACAT ATAACAGTTT GAAATGCTTG TTCCCGGTG CCGTAAAGAA ATAGTACTTG AACTTAAATT TATTAGCAA  
GGCATTTTT ATTTTCTGCA GAAAGGGTAC ACTTGGCAGC AGTTTINCCA CGAGAGTACC CGAACAAGG GAGACAGGGT  
CAATTATAAC CTGACGGTC CACCTTCTG CTGTGTCCG TTTCCATTGG CTGGAACAGG ACCTCACATT CTGTATTGT  
CCCGATTGGC TAGCAACTTA GGACTTATTA AAAGAGGCAA AG

SEQ ID NO:1815: (Length of Sequence = 299 Nucleotides)

GCAGAGAATC CTTTGAACTT GGNAGGCGGA GGTTCAGTG AGCCGAGATC ACGCCACTGG ACTCCAGCCT GGACAACAAG  
AAGGAACTC CATCTCAAAA AAAATTGAAA AAAAATTCAN GANATACAGA ATGCAAAAGG GGACCAAAAA AGTACCAAAA  
ATTTCAAAT TTTGTTAAAC TGTACCAAAT CTGGNTACGA AGCGTTATTT TTGCCACAG GGCATTCCC TGGAAGNCG  
TTACAATAGC TNAGGCTTCC TCTTCAGATA GANTTAGAGT GGCAGTAGGA TAGGCTCTT

SEQ ID NO:1816: (Length of Sequence = 286 Nucleotides)

ACCCCGGGTC CCAGGTATGC TCCCACCTCC ACCTGCCCA CTCACCACCT CTGCTAGTTC CAGACACCTC CACGCCACC  
TGGTCTCTC CCATCGCCCA CAAAAGGGGG GGCAAGAGGG ACCAGCTTAG CTGAGCTGGG AGGAGCAGGG TGAGGGTGGG  
CGACCCAGGA TTCCCCCTCC CCTTCCCAA TAAAGATGAG GGTACTAAAG TTGCTTGGT TTTTATTTTA TTATTATTTT  
TTTCTTTTTC CAGTATACTA GCTTGTCTTT TAAGAAAGGG GATATT

SEQ ID NO:1817: (Length of Sequence = 320 Nucleotides)

GAAAGGAAGG CCAGGGTGGG AGGAAGGATC AGCTAAATCT GAGGGAAGAA GAAGGAAAGG AGAGGGACTA TTGCATAGCA  
GATGCAAAATG AAGGGACTGT CITATTATAC AGTTTATCA TCTGTTAATA CTCATAATCT TGTTCTTTT TCAACTTTTA  
TATAATTTTA TCTTACATT AGTTAAATCA AAAATCTTAA AACACATTTT AAACGTGGTC ATAGGTTACT TTTATATATT  
ATTGAATTTA TAATAACAT GTTCTTTTNC TGGAACTGG GATGNACCN CGATGGTGT TCTTGAATAT AAGAGTGTCC

SEQ ID NO:1818: (Length of Sequence = 356 Nucleotides)

CCCAGGAGGC TGAGGCAGGA GAATCGCCTG AACCAGGAG GCAGAGGTG CAGTGAGCCG GGATTGTGCC ACTGCACTCC  
AGCCTGGTGA CAGAGCGAGA GTTCATCCAG ACACACACAT ATATATATAA TTNCCAAACA GGCTTTACTA AACCCCTGA  
GGTCTCATGA CACAGTAGAA AATCATGATT TAGTAGAAG AGCATGGTC TAGGAATCCA GTAGATCAGT AGACCTGAGT  
TAGAGTCCA AATCTGCCAC TTCAATCTG TATGGCTCA GGCAAGTAC TTAANCTTC TGCTCTCTG TTTTCTTTAT  
AAAATGGGGG ATAATAATAG TAACTTCTT ATAGG

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SEQ ID NO:1819: (Length of Sequence = 328 Nucleotides)

CCACTCCTGT AACCTGCTGG ATGACTCTGC ACTGCCCTTC TTCATCCTCA CCAGTGTCTT GGGTATCCTA GCTAGCAGCA  
CTGTCTCTTT CATGCTTTTN AGACCTCTCT TCCGCTGGCA GCTCTGCCCT GGCTGGCCTG TCCTGGCACA GCTGGCTGTG  
GGCAGTCCCC TCTTCAGCAT TGTGGTGGCC GTTTTGGCCC CAGGGCTAGG TAGCACTCGC AGCTCTGCCC TGTGTAGCCT  
GGGTACTGT GTCTGGTATG GCTCAGCCTT TGNCCAGGCT TTGCTGCTAA GGGTGCCATG CCTCCCTGGG NCACAGACTG  
GGTGCAAG

SEQ ID NO:1820: (Length of Sequence = 359 Nucleotides)

CCACCATGCT CTGCACTCGC NCTGGTACCA GGCCCGCGAC CTCATGCTCA TGAGCCACTT GCAGGACAAC ATTCAGCATG  
CAGACCCGCC AGTGCAAGAT CTTTACAACC GCACCATGGT GCAGCTGGGC ATCTGTGCCT TCCGCCAAGG CCTGACCAAG  
GACGCACACA ACGCCCTGCT GGACATCCAG TCGAGTGGCC GAGCCAAGGA GCTTTTNGGC CAGGGCCTGC TGCTGCGCAG  
CTTGCAGGAG CGCAACCAGG AGCAGGAGAA GGTGGAGCGG CGCCGTCAAG TCCCCCTCCA ACTGCACATC AACCTNGAGC  
TGCTTGAGT TGTTTTIANC TGGTGTCTGC CATGTTCTT

SEQ ID NO:1821: (Length of Sequence = 208 Nucleotides)

CCTGGGTCTG TGACCCAGAG TTCCAACACA AAGACACTTT GTACTGGAAC GCTGGAGCCA TTCCAACATG AACAGCAAGA  
ATAGAACCTG TGCTGGCTGG TCTAAGATCA AACCTCGNGA TGGTGGTTTG AAGTNCCTCT TCAAAGAAAG CTTGAAAATG  
AAATCTCAGT TAGGCAAGNC AGATAAAAGC AGAGTTATTC TGGTGGCG

SEQ ID NO:1822: (Length of Sequence = 314 Nucleotides)

GGATGINTTG AGCCAGAGTT TAAGCCTGAC ACACAGGCIT TGGTCTCAC TGAGCTGTCT CCAAGACTGG AACTACTTAG  
TGACTCGCA AATTTTCTGC CCCCCACCC TCATCAAAGC TGCTAGTTCA GATGTTGACA GTGTTTTCAT GAATGTTGGA  
ATCTTACTAG TCCAGACTTA CTTAGGATGT TGTGGGGAA GGCACITGGG ATTTTCTGTG TCTTGCAATC ACAGAGGGAG  
GCCATTCAG ATTCAAGAGC ATTKGATTAG GGGATCGTGA GGCAGGGATG CTACTGCGKA TTTCTCTCTT CAGG

SEQ ID NO:1823: (Length of Sequence = 344 Nucleotides)

AACAATTTTG TCTTTACTAC ATCTTAAAGA ATTAGAATT GGGTTGGTGT AAGTGACTTA CTTCCAGGNN ATCATGCTCT  
ATTTCIACCA GCAGGTACATA CCCNAATGTC AACTATCTA TTGTTAACCA TGAATGNTAT TCAGATCTAT TACTTTTGGT  
GAAAAGTGA ACATGTTACT TCCAACCATG GCCTGTCACC GTGAGTGIGA TCANCTTINT CAAAACCAC ATGGGTGCGA  
GGAGCTAAGG GGTGGTACCC MAATGTTAGG GACAGTGTTA GGAAGGGCA AGGGAAGAAG AGTGACTNGA TGTCTTATGA  
GRAACCGTA AATGGCTTAA AAAA

SEQ ID NO:1824: (Length of Sequence = 340 Nucleotides)

GTGAGTGGCA GGTATCATGA ACCACATTGT GGACCTGGAG TTGCTAGGAC CTTTCTGCC ATTACACAGA AAAATCCTCC  
CTGAGAACAC AGCCATNGA GGNACATGG CAGAGGAAGA TAAGACAATA AACAGAGNCA CATAATTATG GCCAGCGTGG  
GGGCINACGG CTGTAATCCC AAAACTTTNG GAGGCCGAGG TGGCAGATC ACCTAAGGTC AGGAGTTGGA GGCCAMCCTG  
GGCAACATGG TGAAACCCGT CTCTACTAAA AATACAAAAA TTAGCCSGGC GTGGTGGCAC GGGCCTGTAG TCCTAGCTAC  
TCAGAGGGTT AGGCAGGAGA

SEQ ID NO:1825: (Length of Sequence = 357 Nucleotides)

AATTTGGTTG TGGCCAAATT CTCAGTCCAA TCACCTGGC CCAGGGCTG GCGTGGGAGG ATGTGGCAGG CTCTGTCTCC  
TTCTGGGGTT CTTGGTCTGG AGGAGTCTCC CCAACAGCGC CAAAGCTGGC TGTTTTCCGC CCAAGCCCC AGAACTTTGA

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ATGAGAGGCA AATCTACCTT GAATGCACCT CCTTCTAGG CTGGGTGAGG TCACGCAGAC ACAGAAGGGC AGGACAGAAC  
TCCCCATCTT CTGGGGGCCA ATTCGTCTGG AACTGTGCG GTCACTTCC TTTTAAAGT GCCAGTATCG GTGGGGCAGG  
AAGGGACTCT CAGGGCTGAG CAGAGCCTTC TTCAGCG

SEQ ID NO:1826: (Length of Sequence = 207 Nucleotides)

CCGGCCCCCTT CAGTCCCCAG CCCCTGCCCC AACTCCGACT CCTGCACCCA GCCCGGCTTC AGCCCCGATT CCGACTCCCA  
CCCCGGCACC AGCCCCTGCC CCAGCTGCAG CCCAGCCCG CAGCACAGGG ACTGGGGGGC CCGGGGTAGG AAGTGGGGGG  
GCCGGGAGCG GGGGGGATCC GGCTCGACCT GGCCTTAGCC AGCAGCA

SEQ ID NO:1827: (Length of Sequence = 309 Nucleotides)

GTGTGCGCCT GTAGTCCCAG CTACTCCGCA GGCTGAGACA GGAGAATCGC TTGAACCCCTG GAGGCGGAGG TTGCATTGAA  
CCGAGATCGC ACCACTGTAC TCCAGCCTGG GTGACAGAGC GAGACTCCAT CTATAAAATA AAATAAAATA AAATAAAATA  
AAATAAATAA AATAAAATAA AATAAAATAA AATAAAATAA AATAAAATAA TAAATAAAAA TAAATAAAAA TAAATATATA  
AATAAAATAA AATAAAATAA GAACCACCAT ATGANCAGC AATCTCATTA GTGAGTATAT ATCCGAGGG

SEQ ID NO:1828: (Length of Sequence = 382 Nucleotides)

ATCTCTGACC ACCCCCTCCT CCCCATCCCA CCTTTGGTA ACTCCCCCGC CCAGGNCATC GCCCAGATAT ATTCTTCTCC  
TTGGGCAAGA AGTTCTGTGC ATGCAGGTCA AATCTGAAAG GGNCATTTCT TTCTTTAATG AGTGTGAGGG ATGGGGGATG  
TGGCTGATGA TATAAGGGGC CCTCCAATCA GACTTTCTAA TCTAACTGAA AAGNTAATTA CAATGTGTGAT GCTAAAAAAG  
AAGGTTCTGG CAAAATAGAA CTCTGAAGC ATCATAAATC AGATGACTAA TATTGTGAT CCCCNITTAA ATTTTCATGT  
GAAGAAGAAT AGGGGATGTA ACTGAAGRAA TGNACTAAAA GTTCTTCTAT GTATTGATAA CC

SEQ ID NO:1829: (Length of Sequence = 361 Nucleotides)

GGCGCGCGCT CTGGAGCTGG ATGTCCAGGC TCGGGCGCCT GCTGGGCTTC GGGCTGCTGG TTGCGGGCTC GCGCCTGCCG  
CGGATCAAAA GCCAGACCAT CGCCTGTGTC TNGGGACCCA CCTGGTGGGG ACCNCAGCGG CTGAACCTCGG GTGGCCGCTG  
GGACTCAAAG GTCATGGCGA GCACGGTGGT GAAGTACCTN AGCCAGGAGG AGGCCAGGC CGTGGACCAG GAGCTATTTA  
ACGAATACCA GTTCAGCGTG GACCAACTTA TGGAACTKGC CGGGCTGAGC TTTGCTACAG CCATCGCCAA GGCATATCCC  
CCCCAGTCCA TGTCCAGGAG CCCCCCTACT GTCCCTGCTCA T

SEQ ID NO:1830: (Length of Sequence = 180 Nucleotides)

AAGAACGTTG GCTGCCTGCA GGAGGCGCTG CAGCTGGCCA CTTCCTTCGN CCANCTGCGN CTCGGGGATG TAAAGAACTG  
AGTGGGGAAG GAGGAGGCTC CCACTGGATC CATCCGTCCA GCCAAGAGCT CTTCATCTGC TACAAGAACA TTTGAATCTT  
GGGACCTTTA AAGAGCCCTT

SEQ ID NO:1831: (Length of Sequence = 335 Nucleotides)

AGATCTTCTA TATTCCGACT ACTGATTCAA ATGCTAATCC TGGACGGGCA TGGTGGCTCA CACCTGTAAT CCCAGCACTT  
TGGGAGGCTG AGGCTGGTGG NTCGCTGAG GTCCGGAGTT TGAGATCAGC CTGGCCAACA TGGTGAAACC CTGTCTCTAC  
TAAAAATACA AAAATTGCT GGGCGTGGT ACATGCGCCT GTAATCCAG CTACTCGGGA GGCTGAGGCA GGACAATCAC  
TTGAACCCGG GAGGCAGAGG TTGCAGTGAG TTATTGCACC ATTACACTCC AGCCTGGGTG ACAAGAGCGN AATTCCATCC  
CCCCACCAAA AAGCG

SEQ ID NO:1832: (Length of Sequence = 337 Nucleotides)

GTATTGGAG ATGGGACCTT TGGAAATGCT TTGATTAGGA AGAAGGAGCT TTCATGAACG GGATTAGTGC CCTTATAAAA  
GAGGACGCAG AGAGCTCTCT CACACCTTCC ACTGTCTGAG GNCACAGGGA GAAGGCCCTG TCTATGAACC AGGNAATGAT  
CCCCAACCCAG AACACCTTGA TCTTGGACTN CCCAGATGCT CCANATCTNT GAGAAGCAAA TTCTGTGTCT TTATAAGCTA  
TCCAATGTAT GGAATTTTNG TACAGCAGCC CCAACAGACT AAGNTATTAA TAAAATAAAG ATGTAAGATC TCTGTTGAAA  
ATGCACAAAT AATATCT

SEQ ID NO:1833: (Length of Sequence = 244 Nucleotides)

TCTCTCATTG TAAGCACAAA TTGTTCCGIG TCTGGTTATT AAAATCGCTT TGGGTCTATA ACAGCCACTC TTGTCCCCC  
TTTTAATAGA AAATGTTCAT TCTAGCCTGG ATTCTCCCC ACTGGAGGTG GAGGGTGGGA AGAGAAGGGA GTCAGCTCTG  
ACAGCTTACA AACTGGGAAG TTCTGTGCAT CTCAGGGAT TCCAGAGTTG AAGATCTGGT TGTGGAAGC TGGGCGCCCA  
GTGC

SEQ ID NO:1834: (Length of Sequence = 322 Nucleotides)

TCCTGTACTA CACCTTTGCC AACATGGCCA TGTTGAACCA CCTGCGCAGG CCCCCGTCTT GCAGTACCTG TACTACCTGG  
CCCAGATCGG CATCGCCATG TCTCCGCTCA GCAACAACAG CCTCTTCCTC AGCTATCACC GGAATCCGCT ACCGGAGTAC  
CTGTCCCGCG GCCTCATGGT CTCCTGTGCC ACTGATGATC CCTTGCAATT CCACCTNACC AAGGAGCCGC TGATGGAGGA  
GTACAGCATT GCCACCCAGG TGTGGAAGCT TCAGCTCCTG CGATATGTGT GAGCTGGCCC GCAACAGNGT GCTCATGAGC  
GG

SEQ ID NO:1835: (Length of Sequence = 178 Nucleotides)

ATGAAAGCAC AAAAGAAGTC TATCAAAATT ACAAAAACCT AAAACCGAGT AAACAAAAC TCAAGAAAGAA TGAAAACAAT  
TGGAAATAA CTTCAAGAAA AAAATGTAAA ATGGAAACAA TACAAGANCA ATTTGTGCC TCTGAAAAC AGAGGTTAAA  
GTCAGAATTT TTTGTNC

SEQ ID NO:1836: (Length of Sequence = 377 Nucleotides)

CGCCTGGNAC CACACCCAGC TAATTTTTGT ACTGTTAGCA GAAACAGGT TTCATCACGT TGGCCAGGCT GGTCTCGAAC  
TCCTGACCTC AAGTCACCCA CCTGCCTTGG CCTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGTGC CCGGCCCTTA  
TGCTGAGTTT TAAGGGCTGT ATGAGACACC AGGTGGTGGG AGGGAGCTGT TTTGAGAGCA GGAATTTAG GATACTTAGG  
AAATTAGAAA ATTAGAGAAG TCATAGGATC TTGGAACATA GGGAGAACCT TAGAGTCCTG TGGAGCAGAA CCCAGCATTT  
GTATGTGGAG GAAACGGAGG GCCCAGAGAA GTTGTGACTT ATNCCGGGT CAATCTT

SEQ ID NO:1837: (Length of Sequence = 388 Nucleotides)

GGAGAGAACA AACCTCTTA CTGGCCTTGG GCCATCCCT CTTCTCCCA CACTGCTACT TTTGAGTTAT CTCATTTTGC  
TCCAATAGT CAGCCTTGAC TTTCTGGGC TTACCTGGGC ATCAGGGACC CATGTTGCAC ATTCAGTTGT CCGATTATG  
TCGCTCTAG AGCGTCTCCT AGGGCAGCCA GTCTGGAACA GTGAGTACC TAGGGTCTG GAGCTCCTGC AGTCTGCCAC  
TCGCTNCTTC TGCCTGATAA CAAATACTAT TCCTTTTATC CTGCAACTC GACCCAGAAA GAGGTGGCTG TCAATGTCCA  
AGGCCCCCTGG GAAACGAAGG ACTGGAAATN TGAACCACT GGGCACAGG GGAATGGGTG GGTCTGAG

SEQ ID NO:1838: (Length of Sequence = 369 Nucleotides)

TCCTTTTATG CCAACAATTA ACTGGGAGCT AGGTAAATTT ATTTGGCTAG ATAAACTAC CAGCTAGATG GATTTATTG  
GTGCCCTCAT ACAGAATGCT GTAGAAAATG TAAAGAAGAG AAAGCTCCTT CCAGCTAGAA GCACATGGGA CTGCTTCTAG

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GATGGAACA AGTCCTGCTA TTTTCACAAT CCTAAGNGT TCTCCAGGCC TCTGGAGAAC AAAGTAAAGT TGTAAAGATCC  
 CCAAAGACAC GGAAAATCCT GGACGAACAG ATTAGAAATA ACTACAAAA ACAAGTTTTT TACTTTCGAA AAGGGTACTG  
 CACTGAAACC AAGTTGGACT TTTGGTCCAC CCCCAGGGCC CTCTTCAGG

SEQ ID NO:1839: (Length of Sequence = 359 Nucleotides)

CNNGTAGGGA AGAGGACITTT ATTGGGATGT TAGTAGGGAA ACATGAGAGG GTGAATTCCA GGAATAGAC ACTAGGACCA  
 AGGTGGCGGT CACCTTAAAG AGCCATAAAT AAACCTAAAA AATTAAGGTG AGGAGGTGCC ACGTGGGGAG GCTGCTGGGA  
 CTATCTGGGA ATTCTTAGGG ATGGAATTTT GGAATTGGAA AGGGGAAATA AGAATTTCGA GCCGTNTCAC AAAAGGGTGT  
 GAAATGATCA CTTCAGACT CCTGCTGCC CTAGGCTGGG AGTTGGGGTT CTGGGGCTCC AGGAAGAGGG GAGGTCTGGG  
 CTCGGCTTNA AGGGGTGAAG AGGGCCCGGT CAAGGTCGT

SEQ ID NO:1840: (Length of Sequence = 360 Nucleotides)

CCAATGAGCC CAGCCTGACA CATATGGACT GCTGACAGG TCCACTGTCC CACGAGCAGA AGCTGTCACA AAGCTTGGAA  
 ATTGCCTTGG CATCCACCTT TGGCTCTATG CCTCTCTTCA CGGCACGGCT GACCAGGGGA CAGCTCCAGC ACCTTGGCAC  
 AAGAGGGAGC AACACTTCCT GGAGGCTGG CACGGCTCG GAGCAGCTG GGAGCATCCT GGGCCCCGAA TGTGCTCTCT  
 GCAAAANAGT ATTTTNTCCC TACTTCAAAA AGGAGCCGGT GTACCAGCTG CCTGCGGCC ACCTCTGTG CCGNCCCTGC  
 CTGGGTNAGA AGCAACGGTC CTTGCCCATG ACGTCACAG

SEQ ID NO:1841: (Length of Sequence = 332 Nucleotides)

GTGTGATTCC ATTTATATGA AATGTCCAGA ACAGGGAAAA CCTATTTNAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT  
 GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TGATTGCTTC ACGGGTGAT GACAGATGT TCCAGAACGT GACAGAGGTG  
 GTGCTTACAC AACTTTCTGG ATGTACTAAA TGCCGCTGAT TGTTCACTTT CAAGTGATTG ATTTTATAGT TATTTGAATT  
 TCATCTCAAT TAAAAAACC AAACACGCA ACTGCTCCCG CCAGCTTCAG CCCCAGGCA GACGGCGCAN CCGTGGGAGG  
 GATGCTGAGC CA

SEQ ID NO:1842: (Length of Sequence = 246 Nucleotides)

GCTGTCAAG GCAGAGTTA CTGAACININ AGTTTCCTCC TGCACACACC GGGCATGACA CCTTCAAGTC TGNCCAGCAG  
 TGGGTCCAGA AAGTACCTG TGTGCTTGG ACGCAGAGG TACAGTTCTN ACTGTGTGGC ATGGGAGCCT TCANAGTGCC  
 CTCGGGAGCT GCCCCTGGTC TTTGTCTGNA AAGGTGACTG GGAGGNTAGA AAAAGCAGCG GGCTGGCAIT GTTTGGGGG  
 TGGGT

SEQ ID NO:1843: (Length of Sequence = 313 Nucleotides)

ATTTATTGCA AACAAAATTG AGGTAAAGA AGCTGACCCA GAACCCACGC CGTCCAGGC TGGGGAAGTC TCTACTCGCC  
 CCACACAGG CCCCAGGAC CGGGGGCCG AAGCAGCCCC CAGAGGACAG ACGGGCCCTG CGCACTGAGG TAGCTGCATC  
 TTAAGCCCC ATGAGTACAA CTGCCAGGG CTGCCCAATT CCCAGAGGG AGGAGGAGAG AGAGGCAGGC AGGGGGAGCC  
 CCGGCTTCAG GTGGGGCACA CCCCANACC TCAACAAACC TTCCAGCCTC TTGGGGCTGG GGCACCTCCT GCC

SEQ ID NO:1844: (Length of Sequence = 274 Nucleotides)

CTTGCTTCT NAAAAACAAA CTCAGCCG TGCCAGTCGG GACTTGGTGG CCGGCGCTG CCAGAAATGCT CCACTGCCAG  
 CCGGCCCCC TGCCCTGGT TCCTTCTGT TTAGTGGCGA CACAGGCACC CAGCTTTGGG GTGGTGCTGA CGCTCCAGG  
 GGTGCCAGGA GCCACTGGGA CAGGGTGAGG CTCACAGAG CTCCTGAGG TGCCAGCTC TCCAGGGAGC TTCTGNNCA  
 AGGNCGTCTG AGGGATCTGC TCCTTAACCN CCA

SEQ ID NO:1845: (Length of Sequence = 441 Nucleotides)

GGGGAGGGGC GCACACACGA AGGGAGGTGT CAGCCGGGAC CGGAAATCCA ACACGGCAAA GGAAAAAAAA CACAACCCGT  
TTCCCAAAGG GAGGAGCAGC AGGAGACGAT GAAGAGAAGG AACAGAACTC TCTGGGCAAT TCTGATGTAC ACCCAGGTAC  
AGTGGGGATC TCTTCACITG ATGCCCAAA AAAGGGATAA ACAACAAAA AACGTGAGCA GCCAGCTTCA TTCTCTCTC  
TGCTTTGICT CTGCCCAGTG ACTTTGGGTT TTGIGTTGAA GCTCTCTTAA TTCITTGACC TTGAAGTTCC TCAACATCTA  
TCCCAGTAGC CTCAGTTTCC ACTTTGCTTC AACTAACATC TTGGACTTTT TTCAGTCTTG AACAAAGGCTA AACCTTTGAG  
ATCTTGAAC CCGACTTCAG CCTACTTAGC TTGATACTAC C

SEQ ID NO:1846: (Length of Sequence = 255 Nucleotides)

ATGAATTCAT TGTTATTTA TTATTCACAG TTAATCACTA CCTACCAAAT GCTATCCGCA GAGTTAAAGG ATTAAGTACA  
TAGGTCTTTA TTAAACACT GATTTTMTT TTTAAATATA TACACACAAA ACTTAGTTCA GCAAGGCTTC ATGATATACA  
CCAATTCCAA AATAAAACAA TCAAATGGTC CNGGNGTAGA ATGCCAGATT CCTTTTATCA TCTGCGAGGA AAAGAGAAGC  
AGGATGAGGA AGAGT

SEQ ID NO:1847: (Length of Sequence = 311 Nucleotides)

CAGGCGACAC GCAGGACCAC TGTGGATTAG AAACCCAC CTCACTCG CAACATTCCT CCCACATCCA CATCCACGAC  
GGAGCCAAAT CTCATTGTIN ACCCTCAGTC ACCACCCC CATGGAGC CNETGGTTAC GNCATGGATG ACAGGTGTCA  
TGACAGGGA GAGAATTINT CCCCGGATAC CCTGAGG GGNCCAC CCCAGGCTA GGGTGGGAGG ATTTAGAGCA  
GTGCAAGAAA CCAAGGAGGA TGGAGCATCC AAAGGAAG AGGCAGGC TNGGGGATTG AGGCAGGAA GGGCT

SEQ ID NO:1848: (Length of Sequence = 311 Nucleotides)

CCACTGGCCT ACATTATAGA AGTGTGTAT GGGGACCTG CCATTGTAT CATGGACGCA GGCCATGACC ATCATCACCA  
CCCATTINT TGCTGAAGA GAATCCAAC GCTACCCAAC CATCTGTGTC TGCATCAGC TCAAATTCTA CATCAGCCCC  
TATCATCGG TAGCTGAGGA AATAGTCACA GGTCTCTGCA TTACAGCCTG GTTTGCCATA TCTAAAGCAT CCCTTAGTTT  
TTCCACAGTC GTCCACTTTG ATTTTGGCAA ATGGNTCCAC AGGAGAAGCA GCAGGGCTNN GTGTGGGGTG T

SEQ ID NO:1849: (Length of Sequence = 318 Nucleotides)

GTGAGTCCCC CAAGAGGGGC CTCAGTCAG AATGTGATG ACCAGTGGC ACAGGTGGAG TGAGTGCTTG ATGCCCCATGG  
TGAAAGCAGG GATGTGGGGC TTGTGCACAG TGANCTGCTG GACCTCGTGG GAGCCGGGGC CAGGCGTGG CGTGAGGTCC  
AGAGGTAGG CGAAGGCTTG GCCATGCTGT AAGTAGGGCT GCGTTCTINA TAGATGGATG GCTCAGGTCC GCGGTACGTG  
GTAGGTCCAG GGCTCTCTC CACATCTCC TTGTAGANCC AGTCTCTGTC CCTGGAGGCC AGACINTAGC AGGGAGCA

SEQ ID NO:1850: (Length of Sequence = 406 Nucleotides)

GGAAGCCACT GATTTTCCCT CCAGTATGAT GATTTACTTT AAAAATGAAC CCAGAGGGAC GGGCATGGTG GCTTATGCCT  
CTAATCCCAG CACTTCAGGA GGCTGAGGCA GGCAGATCAC CTGAGGTGAG GAGTTGAGA CCAGCCTGGC CAATATGGTG  
AAACGCTGT NCTACTGAA AATATAAAAA TTAGCCGGT GTGGTGGTGT GCACCTGTAG TCCCAGCTAC TCAGGAGGCT  
GAGGCAGGAG ACTCACTNAA CCTCGTGGT GGAGGTGCA ATGAGCCGAG ATTNCACCAC TGACTNCAGC TTTGGCAACA  
GAGCAAAGAC TNGTCTTCA AAAAAAATA ANAAGGAAA AAAAACCCNG NAAAAGCTTT TTTATGTGTA AAAACAAGTG  
GGTCAC

SEQ ID NO:1851: (Length of Sequence = 328 Nucleotides)

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CTGAGGGGCA TTTTATTATTA TAAATTTAAT ATGGTTGATT AATGAAAAAT GACAATGAAG TACCAAGAAA ATGTTTGTCA  
ATATAAAAAT TTTAGCAGCA TTTCATAGT TTCAGGCTCC AACATTAGTC GTACTTCCTC CCTCCCGCTA TCAAAAAAAG  
AAGAGACTCC AATGGGATGG AGTAGAGCCT GGGGGTGTCC AGCTTTGTGT GGGCCTCAGA GAAATACTCC ATCCAGCATC  
CAGGATTCTC CCTCCCTCTC ATCCCTGAAG TGCTAGAATG TCAAAGCACA GAAAAAGCCT CCTTTGTGCT GACATTGGAG  
ACAAGGAT

SEQ ID NO:1852: (Length of Sequence = 174 Nucleotides)

GGGCAGGACG GCTCTNGGCC CTTCCTGGCT GACTTCAACG GCTTCTCCCA CCTGGAGCTG AGAGGCCTGC ACACCTTTGC  
ACGGGACCTG GGGGAGAAGA TGGNGCTGGA GGTTCGTGTT CCTGGCAGCA GGCCCCAGCG GCCINCTGCT CTTACNAACG  
GAGCAGTAAG GACG

SEQ ID NO:1853: (Length of Sequence = 252 Nucleotides)

GAGCCATGCA CACACACGGC CGCATAGTCA CACACGCATA TCTACATGTC CCCCCACAT ATACACACAC ACATATACAT  
GGACCCATGC ACACACACAG CTGGATATTC ACACACACTT GCACATCCAC TCCATATACA TAGACACGCA CAGACACAGC  
TGCATGTTCA CACACGNGGA CGTGCACAG GACACAGACA TGCATGCATA TGCGCACAGG TGTGTACAGC CTCAGTGGTG  
GGGTTGGCT GT

SEQ ID NO:1854: (Length of Sequence = 288 Nucleotides)

GGAAGGAGGG CTAAACAATG GTCTGCAGCT CAGTTACTCC TCATCCTCGC CTGGGCCGGG CCAGCATCCA CTCCCCITCC  
TGTAAGCAT TTGGATTTCC TTGGGAAAC AGCCCTGCCC TCTGTCTGA TCCATGTGTT TTGAGATCTC ACAGTAGCAA  
GTGACTCATG TTGGTTCAGT GATCCCAGA GGCTGATTCA AGGATGTCCC CAGCTAGACC CAGGATGGTG GACTCCAGAT  
TGGGGCACTG GGCAGTTTCA CATCTCAAG GCTTGGCCAT CATCGGG

SEQ ID NO:1855: (Length of Sequence = 293 Nucleotides)

AAAATGCTTG TTGATATTTT AGTTATTAAAT TCATATTAACT TTGGCTGAA ACTTTTAAAT TCTATTGIGA ATAGTCAAGT  
AAAATTAGA TTGTTACATT CTGGTTAGT ATTAGATGTT TTTTAAGATT GTTTTAAACA AGATGTTTTT AAGATGAGTT  
TTAATAGTT CTCTTAACAC AAATAAGCT TAATATGAGT ATTTGAAGGA AATTATCCCA AACCAITCCA GTTCTGGCT  
GTGAAGGCT TTTCCAGGGC TAATAAGTTT TCCACTTCAG CCGTAAGTAG GTG

SEQ ID NO:1856: (Length of Sequence = 308 Nucleotides)

ATCTTAGCAG AATCTTGAAA AGCCAGAGA TCAAAGAGC CTTTCGAGCA CCACGCAAGA AGATCCATCG CAGAGTCTTA  
AAGAAGAACC CACTGAAAAA CTTGAGAATC ATGTTGAAGC TAAACCCATA TGCAAAGACC ATGCGCCGGA ACACCATTTCT  
TCGCCAGGCC AGGAATCACA AGCTCGGGT GGATAAGGCA GCTNCTGCAG CAGCGGGCAC TTACAAGCCA AATCAGATGA  
GAAGCGGCG GTTGCAGGCA AGAAGCCTGT GGTAGGTAAG AAAGGAAAGA AGGCTGCTGT TGGTGTTA

SEQ ID NO:1857: (Length of Sequence = 299 Nucleotides)

GGGGAAGCT AATTGGCAAT AATCCTTGC GGAAGGTCAG ACTCCTCTCT TACAGATCTA GGAAGGCCT GGTAAATGA  
TGCTCTTTG GAAATGCCA AGCTCCTTCA GATCCATAC CCTCTCGGC CCTCAAGCAT AGGCAACGAA CTGTCTCTG  
GCTTCAGCT TTCTCATTGA ATCAAAGCTC TCATGCATGG CCTGGATTG TAAACACATG CTGGCTGCCA GCAGTGGCAA  
GTTAGCCTCC TGACCCACTT CTCTCTGCT TCACTCTGG TGTATGAAGG GGGATGAGG

SEQ ID NO:1858: (Length of Sequence = 295 Nucleotides)

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TAAGACTTCC TGTTAGTAAA AGCTACCTCA TGAAAAGTAT TGATGTTATT TGCCAACATT TAGACTAGCT TTTGTTACCG  
 TTTCAGTTAT TCAATTTAGT CAGCACATGT TTGAGTGTCT TACTGCAGGT GAATAATCCA TGATTTCTGC CCCAGAGTAG  
 TTCATAAGAC TGGTAGGATA CATAGATTG TAAATAAATA ATTATAATTC TGGGCAGTAA GTGCTGCTAT AGAAGTCTCT  
 ATAAAGCAAT GTGCAACAC AAGAAAAGGA GCCGTTAATT CCTTATAGGG AAAGG

SEQ ID NO:1859: (Length of Sequence = 326 Nucleotides)

CTTTATTTAG TGCTGGGGCT TTGGAAGCAA ATGTACCTGA GTTTGAATCT CAGGGATAAC CTTTGTACTG TGGCCCTGGG  
 TAAGTTACTC ACTGTCTCTG AAACCTCAAG TTCTCATAA ATAACCTAAG ATGGACAATC ATAACCTCTCT CTGTGATTGA  
 GGTAGGAGAA TATGTGTGGAG GCAGGGAACC GAAGGCCATT TCACTCCAAC TTCTTAGAAC TAAATTAAAA GGAAAACCTT  
 AATTTTCCAT GCCTAAGTAA CAAAAGGACC AAAGGTTACT CCGTTTGCAA ACTCCACCT TTTCTGCATG GCAGATGGGA  
 AGTTGG

SEQ ID NO:1860: (Length of Sequence = 294 Nucleotides)

CCACCCCTAA AAGCACCTGG CCCCCTACA GCAAACCAGG TCTGTCCATG CGGCTGCTGG AATCAAAAAA AGGCCTCTCC  
 TTCTTTGCGT TTGAGCACAG TGAGGAGTAC CAGCAGGCTC AGCACAAGTT CCTGGTGGCC GTGGAGTCTA TGGAGCCGAA  
 CAACATCGTG GTTCTGCTCC AGACGAGCCC TTACCAGTT GACTCACTCC TGCAGCTCAG CGATGCCTGC CGCTTTCAAG  
 AGGATCAGGA GATGCTCGA GACCTCGTAG AGAGAGCGCT GTACAGCATG GAAT

SEQ ID NO:1861: (Length of Sequence = 183 Nucleotides)

TGAAGACTCC TAATCTAGTG CCTCGAGAAA AGCAGGCAAC AGAGGCCTGA TGTCTGACAT TGAATCTTTG GAAGATTAAA  
 CTTCCTCACA GATTTTATA ATNACTTTGG AAATNATGAC TGATGCCAG GCTGTCCCTT GGGTGGACAG TTTGTCTTTT  
 TTTTTTTTTT TTTTTTTTTT TTT

SEQ ID NO:1862: (Length of Sequence = 296 Nucleotides)

TTGGGCTTCT TAAAGTTCCT CCCATCCCTC CTAAGGCTCA AGATGATGCA TTAAACACAG AGGATGCCCC ACAGTGGCTG  
 ATGGAATTAC CAAGTAAAAT CTAAGAGGTA GAAAATGTG GTAGTTTTTA AATTTTATTT TATTAGTATG CAGGTGGGAT  
 TCAGAGACGT AAGATCTTAG CCTTTATTTT CAACATCTCC CATGCATGTC AACAAAGATT ATCAAACACA GGAAGTGAAT  
 AAAATACTAT GTAGACACTG ACCCTCTTTA TATAAAATGT GATTGATCAG GTCTGG

SEQ ID NO:1863: (Length of Sequence = 259 Nucleotides)

CAAAACAAA AGGGGCTCAA ACCAACAGGA AGTCAGCCCC ACCGCAAGCC GGAATACAAC TAACTCGTGC TCTCCAGCT  
 CAGGCGTGA AGCCAAGGCT GTGCCAGGCC TGGCCAGGCC AAGCAGGATG ACAGCAAACG CATCTGTAAC GTNTAGCAAT  
 CAGGTCCCTT GTAATGTGCT TGGAGAGTNT GGACAAGGCC CGAGATGACG AGCTATGAGC TGTGGAAGGG AATGGGGGAA  
 GCAGAAGGCC ACAAACAGA

SEQ ID NO:1864: (Length of Sequence = 290 Nucleotides)

ATCCTTACCA ACAATGCTTC CCAACTGCCT CAAAGCTCTC CTAATGAGA ACATAGTTCT TTCTGAGCAA GGTCTGTGG  
 ACCATGAAGA ATGTACCAA GCTCCCTCA GATCAGCGG GAGCTCAGCC AAAGCACAAG TGCACTGCC AGCTCCTCCC  
 ACTCTGACCC TGCTGCCTCA NACTCCCCAC GCTGAGCCCA GGCCCCACC CTCTGAAGGT GTTTCCCATG TGATTTGAC  
 ACACACACC CACAAGAACC AGATGATCTA TGNCATACAG CATTTAGCTA

SEQ ID NO:1865: (Length of Sequence = 236 Nucleotides)

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CATTTCGTGTT ACATTGAGAC TTCAGTCACC AACATCTGGT GGCAGAGATA CAGGTGTATG AAACATTTCT ATTTACCCAA  
 ATATGCCAGT TCCCAAATAG GATGACTGCA TTTAGTGTTA AACTGGCTTT TCTCATTAGA TACTCTAATT GAGGAATATT  
 TAGCTTCITG AATAGAAACC ATCCAAATGA TGTTTTTTTT TTGATATGTC TGTAACATA AAAATCAGCA AATAAG

SEQ ID NO:1866: (Length of Sequence = 424 Nucleotides)

TACGGGAAGG CGGTGTTTGG AGGCTGGAGC CGTGGCAACG TCATTGAGAA AATGCTCACA GACCGGGGGT CTACAGACCT  
 TAATGAGAGC CGCCGTGCAG ACGTGCITGC CITCCCAAGC TCTGGCTTCA CTGACITGGC AGAGATTGIN TCCCGGATTG  
 AGCCCCCAC GAGCTATGTC TCINATGGCT GTGCTGACGG AGAGGAGTCA GATTGTCTGA CAGAGTATGA GGAGGACGCC  
 GGACCGGACT GCTCGAGGGA TGAAGGGGGG TNCCTCGAGG GCGCAACCCA GCACTGCCTC CGAGATGGAG GAGGAGAAGT  
 CGATTCTCCG GCAACGACGC TGTCTGCCCC AGGAGCCGCC CGGCTCAGCC ACAGATGCCT NAGGACCTCG ACAAGGGTCA  
 CCCCCTCTCC ACCCTGGACT GGCT

SEQ ID NO:1867: (Length of Sequence = 256 Nucleotides)

AAACAATTGA AATCCACAAG AAATTACTAA CAGCACGTGT TTACGTTTTA TCCTGAATCA TACATTTTAA CAATTCACAG  
 CTACAGGAAA TCTAGAACAA AATCAAATAT TCATCACGTT GGGTIGAAAA GTTGAAGAT TTTGCATCTT ATTGAAAAGA  
 ATTTTTCAAA AATGTTTCTG TACAAATGAA TGAATTGCA CCAGGCTGCC CATGGACACC AGGTGTGGCC GCTTCCCAAC  
 GGTCAACCCAC CAGCTT

SEQ ID NO:1868: (Length of Sequence = 297 Nucleotides)

CAAGGTTTTT TTTTATTGT AGCTATAGCT ACAACTTGGC AGCATGGGGG AGGGTGGGAA TGTCTGGAG GGTCTCCCAG  
 CCTCCGCAA GCAGAGTACA AAGGCTGCTC GGGGGGCCGG CCGAGGGGCG GGNITCAGCA GTGNAAGCAG CAGCACTAAA  
 CCTGGTGCCC CCTCAGGTG GGGTGTCTGG AAGACGGTGG GCAATCCCTG CAGGATGGGC GAGGACCAGA CCCCAGGGCG  
 GGGATCTGC ATCCCTAGAC CATGTTGGGT CCTGGGTGAN GGCACCTINGG NATGCTA

SEQ ID NO:1869: (Length of Sequence = 470 Nucleotides)

CAGACATCTG GAGCATGGGA CTGTCTCTGG TAGAGATGGC GGTGGGAGG TATCCCATCC CTCCTCCAGA TGCCAAGGAG  
 CTGGAGCTGA TGTTTGGGTG CCAGGTGGAA GGAGATGCGG CTGAGACCCC ACCCAGGCCA AGGACCCCCG GGAGGCCCCCT  
 TAGCTCATAC GGAATGGACA GCCGACCTCC CATGGCAATT TTTGAGTTGT TGGATTACAT AGTCAACGAG CCTCCTCCAA  
 ACTGCCCACT GGAGINTTCA NTCGTGAATT TCAAGATTTT NTGAATAAAT GCTTAATAAA AAACCCCCCG AGAGAGAGCA  
 GNTTTTNAAG CAACTCATGG TTCATGCTTT TTATCAAGGG GATCTNGATG CTGAGGAAGT NNGATTTTTT CAAGGTTGNG  
 TCTGCTNCAC CATNGGGCTT TAACCAGNCC CGGNACAACC AACCCATGGN TGNITGGNGTT TAAGNGTTTT

SEQ ID NO:1870: (Length of Sequence = 344 Nucleotides)

AGAGATTAGA TTTGTTAAAC ATCTAGGTTA AAATGGTTAA AAGGATTTTC ATACAATTTT AGGCACTATA CAGGTGTGTT  
 ACAACAGCAT TGGTACTTGG ATATGGGGAA AGATAAATCC GACATTTTAA TATCTTGATC AATTTGTGAC ATTCAAATA  
 ATTCCATTTA AGAAACATTA ATCAAACTT AAAGAGACAT ACCACTAAGT ATCCACACA GTATACTGAA AATAAATATA  
 GNAATACAA CAGAAGTCTA CAGNACCA CAGTAGACAG ACTGGTGAAG NCCCAGCTTT TCATGGGCAG TNAAGGGCTC  
 TGGGCTAGAT TTGGGTGTCA ACTG

SEQ ID NO:1871: (Length of Sequence = 278 Nucleotides)

GGATTTATG TCATTCCTCC AAGGTCAGCA GGGGAAGGGG ACACCAGCCA CACTTCACCA CAGGCATAGG TGGCACTGAG  
 CCACCTGGCA CTATCTCCAC GTGCTCCACA CGGAGGGGTG CCTTCTCACT GGCAGCAGCT GCACITCTCT GCTTCTGCCT

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CAGCTGCCTC TCCGCCCTTG CACACACAGT CCTTGGCACA CTCTCACAC TNOGCAGGCA GCAGGAGCAG CAGCTCTTCT  
TGCAGGAGGT GCATTGTCAT CCCTCGCACT TGCAGGAG

SEQ ID NO:1872: (Length of Sequence = 271 Nucleotides)

CTTGCCATCT TCACAGCCAG AAGCTTCCTT GCTTCATGCG CAGACCTCG TGAATCCCT TCCCTTATAA GGGCCCCCAT  
GATTACTCAG GGGCCACCTC AACCATCCAC GGTATCTCC CCACCAGAA ATCTGAACT GAAGCACAGG CGCCGGGTCC  
CTTTTGCCAC GCAAGGTAAC ACTTCCAC GTCTGGGGT TCCAAACCTG CACATCTCTG GGGCTGTTA TTNCACCCAC  
CGTCATCAGT GAGGCGCCTT NAGGAGGGG T

SEQ ID NO:1873: (Length of Sequence = 332 Nucleotides)

CAGGGTATAG TGCAGTGGCG CAATCTCGGC CCACCACAGT CTCGACCTCA TGGGCTCAAG TGATCCTCCC ACCTCAGCCT  
CCCAAGTAGC TGGGACTACA GGCATCCTCC ACCATGCCCA GCCAATTTTT TGCAATTTTC ATAGAGAAGG GGCTTCACCA  
TGCTGCCAG ACTGCTCG AACTCCTGG CTCAAGCCAT GGAATTCCT TGGCTCCCA AAGTGTAGG ATCAGAGCG  
CGAGCCCTG GACCCGCT ATAGTTTTG TTTGCTTTG TTTTGT TTTGAGATGA GTCTACCCCT GTCANCCAGA  
TGGGAGTGCA GC

SEQ ID NO:1874: (Length of Sequence = 317 Nucleotides)

CTCTCCACCT CAACCTCCAG CCCACCTCCA GGTGGGGAA GGGCTGAGT CTCCCTCC CATACATACC TCACCCGCC  
CCCAGCCAC AGAGAGGCTG AGGGAGGGC TCTGGTCTT CCTCCATCCC TGTACCTGCT TCTCCCTCT TCATTTCCAC  
CTCTAGATC TTTCCCCCA CCCAGCCAC CTCAGGCTG GGAAGGTGA GGAATTCCTT CTTCCACAC CCTACCCAC  
CTCACCTGCA GCCTGTGCC TGGGCCAGGA GAGGCATGG TGAACAACA GACCCACAAC CCCCACCT GCAGGCT

SEQ ID NO:1875: (Length of Sequence = 185 Nucleotides)

GTGTCCACC CACCTGGCC TCCCAAAGTG CTGGGATTC TGGGTGAGC ACGCTGCGC TGGACAGTCT GCCCCTAGAT  
GAGTGGCCA GCACGTACA GCTACTGCCT GCCCGACCC CAGCCCTGA TTCTACCGCC GCTCGGCAGG GGGACGGCA  
GGGAGAGGTC CAGCCGCGC GCAAG

SEQ ID NO:1876: (Length of Sequence = 214 Nucleotides)

CCTGGGGACA AAATAGTCAG CAAATCTCA AGGGAGAAA ATAAAGTACT TCCCTCTGT TAAAAAAG TCAAGAGACA  
AATCTTCTT CCCCATTCT CACTAATAGT TATTGAAGG GAAAAAAA AACCCACAA CTTTTTAAAC TAAAGATAAA  
AACAAATGAA AATGAATAAG ATCCAAAGAA TGTCTTTGT TACTCTGCCT TATG

SEQ ID NO:1877: (Length of Sequence = 340 Nucleotides)

TTTGAAGAAG AAGAAGTTGA ATTTATCAGT GTGCTGTCC CAGAGTTGC AGATAGTAT CCTGCCAACA TTGTTATGA  
CTTTAACAAG AAACCTACAG CCTATTAGA TCTTAACCTG GNTAAGTCT ATGTGATCCC TCTGAACACT TCCATTGTTA  
TGCCACCCAG AAACCTACTG GAGTACTTA TTAACATCAA GGCTGGAACC TATTGCTCT AGTCTATCT GATTCATGAG  
CACATGGTTA TTAGTGATCG CATTGAAAC ATTGATCACC TGGGTTCTT TATTTATCGA CTGTGTCATG ACAAGGAAAC  
TTACAACTG CAACGGGAGG

SEQ ID NO:1878: (Length of Sequence = 326 Nucleotides)

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GAAAAACAAG GAAAATAGGC AACAACTGC AATGGACACT TTTCTCTACA GAACCTTTTC AACCTGAAT TGAATTGTTT  
CCTATTTCATT TNCIAATAAA AAGTTACTTT GCAAGATATA AGGAAATACT GTCCCAAAGA TTTTCACTAG TCATTCAATC  
CATTAAATAGG ATTTGAAAAG GCATCATTAC ACAGGGTTGA AAATACTCTG GAATGAGACT GCTTTACAGT CAGAATGCCT  
GAGTTTGTAG GCACTGTAC TTCTAAACAT CTCTAAGTTT CTATTINCTC ATCTAAAGGA GTAATATTAC TTTCCITAAA  
AGGTTG

SEQ ID NO:1879: (Length of Sequence = 222 Nucleotides)

GAAAGGGAGA GGTTCGACGG AGCCAAGATC GTGCCACTGC ACTCCCACTT GGTGACAGG GCAAGACTCC ATCTTAAAAA  
AGAAAACCCA GGAGTCTTTG GTTAATGTAG TGCAGGACTC TGAGCTCCCG GGAGGACCCT TCCTCCAG ATGAAGTGTG  
ATGGACCAGC CCAAGGAGG GGAGAGAGCA CTINGGCCAT AGTGGTGGT GATCTTTCTA AC

SEQ ID NO:1880: (Length of Sequence = 244 Nucleotides)

GACATGAATG GTATCCTCTT GGGGTATGAG ATCCGCTACT GGAAAGCTGG GGACAAAGAA GCAGCTGCGG ACCGAGTGAG  
GACAGCAGGG CTGGACACCA GTGCCCAGT CAGCGGCCCTG CATCCCAACA CCAAGTACCA TGTGACCGTG AGGGCCTACA  
ACCNGGCTGG CACTNGGCTT GCCAGCCCTT CTGCCAAGN CAGGACCATG TAAGCCCCCT CCGCGCGAC CTCCTGGGCA  
ACAT

SEQ ID NO:1881: (Length of Sequence = 156 Nucleotides)

GTACAGGGGA GAGTTGAGCT GTGACAAAGT CAAACACAGG CCTGGCCAC CCACAGGAGC TCTGCAGCTG GGTGGTCTT  
GAAAGTTGTC TCAGTGAAGG CAAGGTGCTG AGCTTATTAC CCCAGCAGTC ATTGTATTTA GGCTCCGTTT GTTACC

SEQ ID NO:1882: (Length of Sequence = 210 Nucleotides)

TTTTTTTTGA AACGAAGTCT CAGTCTGTCA CCCAGGCTGG AGTGCAGTGG CAGCATCCCG GCTCACTGCA ACCTCTGTNT  
CCCAGGCTCA AGCTAGTCTC CTGCTCAGC TGCCCGAGCA GACGGGACTA CAGGCACCCC CACCACGCCC GGCCAATCTC  
CAAATGGTTC TTTTTTTCCG GAGTAGTAAG TTACAATAAG GGAGATTATT

SEQ ID NO:1883: (Length of Sequence = 214 Nucleotides)

GTGATGAATA CATCCAGTIT TOCAACCACA TTCCACCAGG TGGGTGTTTG GCTGTGGGAC GCATTATGTA ATCTTCGTG  
CCAGGAAATT TACCTTCCTA ATTACATTTT GCAAATGTTT ATTTGAAGCC GCCTTCTTGG AGCTCAGT AACTAGGAGG  
TGGCTGCTGG AAGCCCCAGG GCACCGTGGG AGGGACAGGG GAACGTCCCA GACC

SEQ ID NO:1884: (Length of Sequence = 211 Nucleotides)

ATCTTTCGCT CTATGTGCCA TCACCTGGAC ACTCTAGGTA ATACCCCTG TTGGGCAGGG GTGAGCTCCC AAGGCCTCAG  
GCAACCCAGC TCCCATGACT TTGCTGGGCT CAGCCACAT AACTGTTCTC ACAGGATAGA GTTGTACACT GGTGCTTACA  
GCTTTCCTGG GCCAGTGTG CATGCTGCCA GTGGCTGAG CAGCAGCCCC A

SEQ ID NO:1885: (Length of Sequence = 212 Nucleotides)

ATTAGCTGAA TTCGCGTGTG GCGGTTTGGG TAGGCAAAGG AGACATCTTG GAAGTGGACA AGGCCCTCCA AGTGTAAAGG  
AGTCAACAGA CCACCTGGTG GGCAGCGAGG GGTGCGTCC AGGTACTCAA ATATTTTCTC TGAGGAGCCC ACAGCCTTCT  
GTACTCTGGG GTAGATGGAG AGCAGTACCT CCACAGCCTG GGTGAAGTGC AT

SEQ ID NO:1886: (Length of Sequence = 208 Nucleotides)

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CATCCGCATA GTATTTACAT CATGGGTATA GGCAAGINCT ACAAATCAGG NCTTINCCIT GGGGATGGAT GTTTGGAGCT  
AGTTTACCAG CACACCAGTG GGTAAAAGTG AACAAATACT TTTTGTATCC CACAGAATCT TAAAAAATAC TTTACTTCGA  
AAATGTCTCT ACTAAGTAAT CATATATATA TATATAINTG TATATATA

SEQ ID NO:1887: (Length of Sequence = 332 Nucleotides)

CTCGTTCCT GCCCGCCAAC TCCCATTCOA ACTTCCTTTT TACACTGGAT GTTCTATCA CATCTGAGG ACCACTAACC  
CACCAGCAAG TCTCCCOCTG ACACACATTC ACGTAGGTCC ATACCCCTCA GAGTCCCTAAA GGGTTAATGA GAAGCCACCT  
CAGCTTTGGT GAATGGAGCC CCAGCCCOCA ATCCCTCTCC CTTGCAAATA TGGGACAAGT AGGGAGAGTC TGATGGAGGC  
ACCAGACAA CTACAACAAC CTCTTACCCC TCAGCTATAG ACACCTAGAT CAGGACAGAG GGATGCATAT GCCCTCTCCA  
CCTTAACACC AA

SEQ ID NO:1888: (Length of Sequence = 224 Nucleotides)

AAGAGCTGAT TGAGGCTGCC AAGAGGAACG ACTTCTGTAA GCTCCAGGAG CTGCACCGAG CTGGGGGCGA CCTCATGCAC  
CGAGACGAGC AGAGTCGCAC GCTCCTGCAC CACGCAGTCA GCACTGGCAG CAAGGATGTG GTCOGCTACC TGCTGGACCA  
CGCCCCCCA GAGATCCTTG ATGCGGTGGA GGAAAACGGG GAGACCTGTT TNCACCAAGC AGCG

SEQ ID NO:1889: (Length of Sequence = 261 Nucleotides)

CACTTTACTG AGTCACACCC AGCTGTAAAC ATGTACCGT GAGANTCCCG CCCCCACCC CCAGGCGCA CAGTCCGCGA  
TGAAATGACA GGGGAGCGGG GAGGGTCCG GGAGCGGGT CCAAGCAAGG CAGGGCAGGC AAGTGCAGCA GGCGCTGAGT  
TTCCGGGAGG AAGCCCGGAG GAGGTGGGGT GGGGCAGGAG CGNGGGCTGG GGACCCGCC GAAGACCAGG GGGCCAGGA  
AGCCTCTTTT CCGAAGGNC T

SEQ ID NO:1890: (Length of Sequence = 312 Nucleotides)

CTGCGAGACT ACGAGACGGT GGTCAAGGTG AAGCCCCATG ACAAGGATGC CAAAATGAAA TACCAGGAGT GCAACAAGAT  
CGTGAGCAG AAGGCTTTG AGCGGGCCAT CGCGGGCGAC GAGCACAAGC GCTCCGTGGT GGAATCGCTG GACATCGAGA  
GCATGACCAT TGAGGATGAG TACAGCGAC CCAAGCTTGA AGACGGCAAA GTGACAATCA GTTTCATGAA GGAGCTCATG  
CAGTGGTACA AGGNCAGAA GAAACTGCAC CGGAAATGTG CCTACCAGAC AGAGAAGATT ACAGTATGTG GG

SEQ ID NO:1891: (Length of Sequence = 298 Nucleotides)

CCTAAAGGCC AGGCAAGGCT GATTCTCCAC TTCCACATGA GACAGAGCTG ATTCTGCAGG GAAACGGCTG GGGAGGCTCC  
ACCTCTTTCC TCCCCACAAC CATTTACTGG GAAGTTGTGT ATACTTGGCA GTNTGGGAGG AAGGTACTTG GAAGACCCTG  
CCAGCCATCT CCCACCCAGA CTCTTCTCA CCAGCACAGT CTTCAAGGCT TGGTGGGAAA GGTGTGTGGG AGTGGAGAAA  
GACAAAGGGC CCTTCTTNA GAGAGGAGCT GCAGAGAGGG GCAAAGGGGT TCCTAGCC

SEQ ID NO:1892: (Length of Sequence = 333 Nucleotides)

CTCCAAGGTC ATCCAGTCCG TCGCTAATTA TGCAAGGGT GACCTGGACA TATCTTACAT CACATCCAGA ATTGCAGTGA  
TGTCATCCC AGCAGAAGGT GTGGAGTCAG CGTCAAAAA CAACATCGAA GATTGCGGT GTTCTGGAC TCCAAGCACC  
CAGGGCACTA TGCCGTCTAC AACCTGTCCC CGAGGACCTA CGGCCCTCC AGGTTCACA ACGGGTCTC CGAGTGTGGC  
TGGGCAGCAC GCGGGCCCC ACACCTGCAC ACCCTGTACA ACATCTGCAG GAACATGCAC GNTGGCTGC GGCAGGACCA  
CAAGAACGTC TTC

SEQ ID NO:1893: (Length of Sequence = 487 Nucleotides)

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CCAGATAGAG TTCTGTGTTT TNAGTTTAC ACGTGCCACA TCAGGGAAAG TTAGGTTATG ATTAAAGCAA GAGATGATAG  
 ATGAACAAAC AAAGAAACAA CAACAAAAG CCCATGCAAG AGGCAGGAAA AGAGGCTGAC TGGTTAAAGA ACAGGCCAGA  
 TTGGACAATA CTGATCAAGA GGGGTTTACA TTTGAAAGAA CAGTGCTTTA TTCCTCTACT GACTAGAACT AAAGGGATTT  
 TGGCCGGGTA CGGTGGCTCA CACCTGTAAT CCCAACACTC TGGGAAGCCA AGGTGGGCGG GTCACGAGGT CAGGAGTTGG  
 AGACCAGCCT NACCAACATG GGTGAAACCC CATCTCTACC CAAAATACAA AAACCTTTNC CGAGCGTGGG CCCGGCGTTG  
 GTTGGCTCAT ACATTTNAIN CCCCNCCTTT NGGGGGCCCA NCGGGGCGGT TCACCTTAGG GTCAAAGGT NCGGGNCCT  
 TCTTGGC

SEQ ID NO:1894: (Length of Sequence = 283 Nucleotides)

GGTGGTGAAG TGGGCTCTGG AGAAGCTGGA GCTGACCAAG TACGAGACA AGCCGGCTGG CACCTACAGC GGCGGCAACA  
 AGCGGAAGCT CTCCACGGCC ATCGCCCTCA TTGGGTACCC AGCCTTCATC TTCCTGGACG AGCCACACCAC AGGCATGGAC  
 CCCAAGGCCC GGCCTTCCT CTGGAACCTC ATCCTCGACC TCATCAAGAC AGGGCGTTCA GTGGTGCTGA CATCACACAG  
 CATGGAGGAG TGGAGGCGC TGTGACGCG GCTGGCCATC ATG

SEQ ID NO:1895: (Length of Sequence = 234 Nucleotides)

ATGTCCATTA GCCTCATTG TCATCTGAGG GAGCTGGTGA GAACAGCCTT GCGTGAAGG CATCCCTGGT AGAAGTCGGG  
 GGAGATAGAT AGTCACAGTT CCCAGTTGG TGGAAATNG ATNGGAGTAG GGAGAGGCTN GAACAGACCC TTCCCATTC  
 ACCTGNGAA TTTTCTCCTC CCACTGCCCT AAACACTTTA TTTCCATCAC AGGGGAGAAA TNCCTCTGAG AAGG

SEQ ID NO:1896: (Length of Sequence = 285 Nucleotides)

CTTTAAAGTG TAATAATATG ATTITTTAAA AGAAATTTAT TACTGTGTC AAAGGTCTTT TTAAACCACT TTAGATTCA  
 AGAAAAATA AATGGAATC ATCGAAATC CATTTCACAT TAATGGTCTA AAAATAAACC AAAGGACATT ATGTGTGCAT  
 GTGTGTATAA GTGCACACAG AAATATATAT NCATATGNG ACTATATACA TGTGTGTATA TATGTGTATA TATACATNCA  
 CTGTATATAA TGTATATACA CATATACCTA TAATGTGTGT ATGIG

SEQ ID NO:1897: (Length of Sequence = 288 Nucleotides)

GCAGGTTTAT GTTTTATTT ATGTATTINA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTCAC AATATACTTG  
 CAGAAGTGTG CTTGGSGSAT CATGGGAGCA GAGAACTTGT CCAGTGAATA GTTGTGAAG AAAGGAGTAA AAWCTCCCC  
 AAACCTTAAA GGCATCCTTT TCGTAGTGTG TGTCCAYAG GTATGGCTGC TGAGCACCAG GGGCTGCTCA CCATGNTCCC  
 AAGAAGCAGA GTCANGGAGG CAGACAGCAG GGTATTATTA GGTGCACA

SEQ ID NO:1898: (Length of Sequence = 398 Nucleotides)

CAGAAGTAAA AGATTTTAT TGTCTATAG ACACTTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG  
 TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAAT  
 GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGAAAA AGGTGCATTC CCTAAGCTG AGGGGGATGG AATTTAGAA  
 CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTC AAAACAGTTC CAAGCTTTGA  
 GAAAGCAATG AGCTCCACCT ACTCAGCAGA CCCACGGTTC GTCCCCCTGG ACGTGACTTA GCAGTGACCT TGCTGCC

SEQ ID NO:1899: (Length of Sequence = 227 Nucleotides)

CATGGGGACC CGGGTTTATT TTATTAGGAA GGAAACAACC AAGCACCCCA TGTTCCTGCC CGGACTCCC GGGGGGAACA  
 TGCCAAAMAG CCGGGGATCG AACCAGCCC ACCTGTGCTG GRGGKCCCTT CTTTCTCAGG CCACAGAAAT AAACCCGTGT

ACTTYYTTATT GTTAGCACAA CATTACCAGA AAACGKTAAC GGCAGCCAAG CAGGACAGAC AGTTAAG

SEQ ID NO:1900: (Length of Sequence = 405 Nucleotides)

GGGATGCACT GGGTTTCACA TCAAGTTCCT GAGAGGWTCC CGAACGACTT CTCTGCCCCA GGGGAGTCCG AGCCACAGTT  
TTCTGATCAA CTGATGATTC TRACCCGCTT CTTTCTCTCT GGGGGGTAAG ACACITGTTG TTGAGCTCTG GGGATGATGG  
AGAACGACTC CTCGGCCTAG GAGTCTGAGG CAAAGCTTTC GGTTCTGGGG AAGAATCACA TTGCTTCTC CCTCTAGATG  
GCGTTCFAGG TATATCTTTC ATTCCAGGAG AGGACCCAGA CAGGCTGTGC CTCGAGGGAG TCCCAGACCC ATCTCTAAGT  
CCTGGAGAAG ACCCAGACCT GCTTCTCCTT GATGGAGTTC TGGTAAACCA TCTTTCATTT CAGGAGAAGA TGCAGACTAC  
TTCTT

SEQ ID NO:1901: (Length of Sequence = 244 Nucleotides)

ATRATTCATA TGCTAGTTTA TTTATCTTAT TATTGAGAGA TAATTTTCATG ATGACAGTTA TCAATAATCA ATTACAATAT  
CAAGAAATTC AAAGAACAAA ATCTTGACAGA GACTATGCTT TTGTATTTGG ATTTAAAAAG TATGTGATCT CATTTTCACA  
TACCAAGCTG AGAGGCCATT TAGACTATCT CTTTGCTAAT TTTTGCTTAC TGCTGTAGGG AAGAAGATT CCAATGAMCT  
TTAG

SEQ ID NO:1902: (Length of Sequence = 329 Nucleotides)

TAAAAATAAA AAAATAAATA AAATTTTAAA AATAATAAAA ATTCACTATA TACACATATA AAGAAATAAA AAGAAGTCTC  
AGTTGCAGCT ATTTGTCAAA ATTAATATCC ATTTCTWTW ATATACGGTG AATATGCGC AATTATAGAT CTGGATTTTA  
AACCACITAA TGAAGCGCA ACACCAGGTG TTTTAAGGTG TTGGCATTCT TCGCTGATTT GGCTGTCCC AATGTTTACA  
TTATTTAATC TTGCAAAAAT GGTTCIGATG CACTTGGGAT GTGAAATGCT GTCCCGTTTT ATTTTTTAA TGTGTATATC  
CTTGGGTGT

SEQ ID NO:1903: (Length of Sequence = 421 Nucleotides)

ATTTTATATT CCACAGTCAG GTGGGTCTGC GATASTCATT TAATGTTAAA CGCCATCAGG GGCTCTCCT CCCGTTTCTG  
CCAGGGGCTT TTCTTGCTT CTCCTTGGTC ATCATCATCA TCGTCTTCTT CTCTCTGTG GGCAGATCTT CTCTGGTGGG  
GGCTGGCTGC TGGCTCCGAG GGGGCATCCG CAGTCCGTCT GGTCGTCTCC TCCTGCAGGC TGGGCAGCTG GCCACCACTT  
CTCCGACTCG ACCCTCCAA CAAGCATCGC AGGGCACTGT CCTCGGGGGT ACAGACCGTG GTCCACATT CGTACCCT  
CTGTCCACG NCATCCAGGG TACACGAGCT GCGTGTAGGC CGTCTGTCT TGGGGCTCGA GGCTCTTCT GCTGGTGTCT  
TTGGACGGGC GGGTAAATTC T

SEQ ID NO:1904: (Length of Sequence = 423 Nucleotides)

GTCTGTCCGC CTGTCTGAA GTGACGGTGC AGCCAGGCTG CTCCTGCCC AGCAACCCCG AAGCCATTGT GCTGGACGTC  
GACTACAAGT NTGGGACCCC GATGCAGAGT GCTGCAAAAG CCCCATATCT GGCCAAGTTC AAGGTGAAGC GATGTGGAGT  
TAGTGAACCT GAAAAAGAAG GTCTGCGGTG CCGCTCAGAC TCTGAGGATG AGTGCAGCAC GCAGGAGGCC GACGGCAGAA  
GATCTCCTGG CAGGCAGCCA TCTTCAAACT GGGAGACGAC TTCCGGCAGG ACATGCTGGC CCTGCAGATC ATCGACCTCT  
TTCAAGAACA TCTCCAGCT TGTGCGCCTG GACCTCTTG TTTTCCCTA CCGGTGGTG GCCACTGCCC CTGGGTTCGG  
GGTGATCGAG TGCATCCCCG ACT

SEQ ID NO:1905: (Length of Sequence = 370 Nucleotides)

CAGAACCAGA ACATTTTAC TCTTTGGGCT CTGGGAAGGG CCAGGCAGAG TGCAAGGTGT CCACAGGAGG GGTAAGCAGA  
GAGGAGCTAC AGGGGGCTGC AGTCCTAGTA CCTGTGGG GAGGACTGAG GGATGGTGAG TTTGGTCTCC GGAGGGGGCT

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CCAGTCCTGG TGCCCACTTC TNACANCTGC CCTCCTGAG TTCACACTGG AGTCCTTGCA GTCTGAAAC CACAAGGCCT  
NCCTGAACCC TGGGTCAGGA GAGAAANACT TGGGGAGGGG AAAGGACGCG GTGGGCTACC CATKACGGCT CTGAGTTCTT  
CCTGGGGCTT GTGTCITTTT CTTGGCAGAA GAGGGCACAG CCAAAGGCAA

SEQ ID NO:1906: (Length of Sequence = 415 Nucleotides)

GTCACACCTT CATTCACTGA GGAAGAAATG CTTTCACTCT GGAATTCAC AGCATCCCAA TCTGACGTTG TACCCGTGTG  
ACACTGTTTG TGAGCCCCAA GTTCAACGA GCTCTTGCAA GTAAACGGAC ATTCTGCACA TTTGTAGACA GCTGCTTTT  
CAGATAAGTG GATGTTTTCT ATGTGACGAG AGATGCTACG TCGATGCATG GTGAGGAAAG GACAAAAGGG GCACTGGAAC  
CTATTCAATG ATCTNCTAAA TGAATCCCTC TTGGTCTCCA ATAATTTGTT GCCATCTGAG CCCATCAGCT GCTCTGCAGA  
CAGGCTGAT GTCTGGTGAT CCACAGCACT TAAACCATTC TCACTTGTCT AITTCATTTA ACTCTTCATC AGAACTAGAG  
TCATTAGCAT GCTGT

SEQ ID NO:1907: (Length of Sequence = 214 Nucleotides)

TGAAATCCTG TACGTGTCAA CTTGAAATG TATGTGTGTT GGTGGGTGG TGGTGATGTG ATACGGTTTG GATGTCTGTG  
CCTCCAAAT CTCATGTGA ACTATAATCC CCAATGTTCC AGTGAACGCG GTGTTTGTTT CCATGGCGGG GTACCCTAGG  
GATTCATCTG TTTTCTCAC TTCCCTTTC ATCTGAGATC CTGCTGGAAA CCAC

SEQ ID NO:1908: (Length of Sequence = 410 Nucleotides)

CAGGAGAGCT GGGCACATGT CCAAGCCTG TNAGTGGCCC TCCCTGGTGC ACTGTCCCGG AAACCCCTGC TTGGGAAGGG  
AAGCTGTGGG GTGGGCTAGG ACTGACCCCT GTGGTGTGTT TTTGGGTGGT GGCTGGAAAC AGCCCTCTCC CACGTGGCAG  
AGGCTCAGCC TGGCTCCCTT CCTGGAGCG GCAGGCGTG ACGGCCACAG GGTCTGCCCG CTGCACGTTT TGCCAAGGTG  
GTGGTGGCGG GCGGGTAGGG GTGTGGGGGC CGTCTTCCTC CTGINTCTTT CCTTTCACCC TAGCCTGACT GGAAGCAGAA  
AATGACCAA TCAGTATTTT TTTAATGAA ATATTATGTC TGGAGCGTN CCAGGCAAAG CCTGGCTGTA GTAGCGAGTG  
ATCTCCGGGG

SEQ ID NO:1909: (Length of Sequence = 339 Nucleotides)

AAAATTAAAT CCAATTTTA TTAAGGATTT CAGGTTACAT ACTTCAAATT TCTAGAATGG AATGGAATCA TTTTGGAACT  
GGAAAAATGG CATAAACACT GACGTCCCTT AAAACTTCAA TTTTATAAAG AAAATCTTC TGCAAACCAC ATCCCTTTTA  
TGTAACAAGA CTAGGTATTA TCTACACCTT CACTTTGGCA ATAGCTATTT CCTAAAGAAT GAAAAAGATG ATTTNCTAC  
TTCAGTTCAT TAAAAATGGG ATTCTATCTT TGAAGTTCAG AAAAAGCTGC ATTCGATGA ACTATGGGTT AAAAAAAAAA  
GCACATAGTG TCTAATCAA

SEQ ID NO:1910: (Length of Sequence = 439 Nucleotides)

GGCCAGGGA GCACCAATCA CAGCAGGGC TCTGGCCAG GTGTGGCAG CCCAGGCTC CATTGCTAA TGATTAATAC  
ACTGTTTGGG CTGGCCAGTT TTTTCATGAT GCAGCTTGAC GATTGAGCAC AGTCAGGCTT TTGTATTAAA AATGAAAAAT  
GAAAAACAA ATTCAAACC TATTCAAATG GGTCTAGTT CAATTTGTTT AGTATAAATT GTCATAGCTG GTTTACTGAA  
AACAAACACA TTAAATTTG GTTTACCTCA GGATGACGTG CAGAAAAATG GGTGAAGGAT AAACCGTTGA GACGTGGCCC  
CACTGGTAGG ATGGTCTCT TGTACTCGT GTGCTCCGAC CCATGGTGAC GATGACACAC CCTGGTGGG ATGCCCGTGT  
ATGTTGGTTT AGCGTTGTCT GCATTGTCTA GGAGTGAAC

SEQ ID NO:1911: (Length of Sequence = 342 Nucleotides)

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AATGCACCCA TTTGGCTGCC AAGAGCTTCT CACTGCCTTG CTAGCAGCCT GCCACTGTNC OCTGGCAAAT TGAAACCACC  
 CACGCAACA CTCAAAACC CAATCTCCTT GCTAATAAGA TACAACCACT TAACACCGTG AAAAATGCAC ATCTCCAGCC  
 TTCATTTCAA AAAAGAGCTC TGTACTAAAT GCAATATGCT TTTAAAGGGG GTTTTACAGG GACCAATCTC AATGCAAAGA  
 CCAGTACCAG ATGCTGAGT TTTGGTTACA GGTTTATAAT TAGACACAAA ATTCACCTCA CACTGGAGTT TTACTTTCAA  
 GCTGGAGTTA GCATTAGTTC TA

SEQ ID NO:1912: (Length of Sequence = 380 Nucleotides)

TCATGCTTTT AATACAACT TAAAAAATC TGGACAATA GAACTGTAC AGATTTGATC AATCTTTTTG TTTTGTFTTT  
 AAATAAAAT CTCATAACAC ACCAATGTCC CATTCCAAA TATTGCACAA CATTCTGAAT ACAAACCCCT TGATGTATT  
 CCTCTNCAC TAAAGAAAA AGTTCAAGAC CTGCTCCCC GGGCTCCTCT CCAGGCTTGC CTCATGCCC CCTTCCCAC  
 CCTAGGGAGA AAATAAGAGA ATCTATAACT CACTGCATTG AGAAAAACAC ATCATTCTGG ACTAACAGTT TTCCATTCTT  
 CAGANGNTA ATCCACCTTT TGGATTGTCT CCTGGGGAAA GAGGGGTAGA TAGAGGGATG

SEQ ID NO:1913: (Length of Sequence = 361 Nucleotides)

GAGACAGAGT TTTGCTCGTT GCCCAGGCTG GAGTGCAATG GCGTGATCTC AGCTCACCAC AACCTCCACC TCCGGGGTTC  
 AAGCCATTCT CTGCTCCCG ACTCCCGAGT AGCTGAGATT ACAGGCATGT GCCACCACGC CCAGCTAAGG CTTTGTATT  
 TNAGCAGAGA TGGGGTTTCA CCATGTTGGC CCGGCTGGTC TCAAACTCCT GACATCACAT GATCCCCCG NCTCAGCCTC  
 CCCAAGTGCT GGGATTACCG GTGTGAGCCA CTGCCCTGGG CTCTCCAGTA CATTTTITAGG GGGACGATCA ATGAGGATTC  
 TCTTCTCTGA GTTACTGCAT GTGTTACAGT TTATAATCCT T

SEQ ID NO:1914: (Length of Sequence = 409 Nucleotides)

GGGGGCCTTA CAACTAGGTA TGGTGGATAT TGCCCGACAG ACGGTGGAAT TTCTCTACGA AGAGAATGGT GGCATCCCAA  
 GAGACCTTTA TCTTCCACC ATTGAAGACA TTAAAGACGA AGCAAACAAG TTCACAATTG ATAAAGTTGG AAAAGGTCTC  
 ACAGTAGTAA CCGCTCTCC AGACAGCAAT AATGTAGCCA GCAGTGCTGT TGGAACTGCT CTGCCAAAAT TTGCCATCCG  
 AGGGATGCTG AAAACCTTTG GCCTTCATGG AGTCGCTTIA GATGTTGATT CAGTGAATGA ACTGGTGCGAG GTAGAAACGT  
 ACCTCCGCG TGAAGGTGTG CTGGTGGGAT ACTTGGTATC CTATTTGACA TGTGGGAAA GGGCCCCAG CAGGCTACCG  
 AARGGACTT

SEQ ID NO:1915: (Length of Sequence = 402 Nucleotides)

ATGGTTTATA GCAGGAATAC TTGTTCTGAA TGACTTGGAG GGAAAGTGIG TGTGTATATG TGTGTGTGTG TGTGTGTAG  
 TTTTGTGTAG GTAGGGGAGA CTATTTTGTG GGTTCAGTCA CTCCAATTAT TGCCACAATG CACTTTCTTT CATAACTGCC  
 CCACCAAAGG TCTTAAAGC CATTTTGTGA GCCTATGCA CTGTGTCTC CTACTGCAAA TATTTTCATA TGGGAGGATG  
 GTTTTCTCTT CATGTAAGTC CTGGGAATG ATTCTAAGGT GATGTTCTTA GCCTTTAAT TCCTGTCAA TTTTITGTG  
 CTCCCTTCT GCCATCTTAA ATGGTAAGCT GAAACCTGG NCTACTGTGG CTCTAGGGGG TAAGCCCAA AGGCCAAAA  
 AA

SEQ ID NO:1916: (Length of Sequence = 382 Nucleotides)

GAAATGAGAC TTTATTCTGA AATTATTAAA AAGAACAGAG ATGCTCCAAT TGGCTGCATG CAGGGGGGGC GGTGGGGGG  
 ACAGAGGGGA GGACAGGGGC TCAGCCAGGG GGACCGTGTG TCTTTCCAC GCAGGACACT GTGCATGGGG CTCTGGGTGC  
 ATCTGCCCAT CTGTCTATGG GCTGTGTGT GTGTNAGAGG CCAAACACAG AGAGCTCCGT GGGTCTGTGT GTATCCAAGT  
 GCTAAAAGGC AGGCTGGCTT TCTGGGGCCC ACAGCTGGCG GGCTAGTATC CTGGAAGGTT TCACTTGGTG GCTTGGCCTA

GGGACCAGCA AGGGCTTGGN GTTGAAGGG GTGGCTCAAG GAAGCCTCTT TCTCCACTCA CA

SEQ ID NO:1917: (Length of Sequence = 375 Nucleotides)

GAGATTAAAA TAAACAACAC AAAATGTATT TAAATGAGAA ATTGAAATAT TAAAAATAAT ATTAGGTGAC ATTAAAACTG  
TCATAGAAAT AAACGTGATA TACAACAAAT AAATCAATGA TTGTAACTT TTTTAGACAG TTTGAATATC AGATTATAAT  
GAATAGCATT ATTAGCCAGT AAAAAGAGCA TATAAATTAT TTTAAAATTC CAAATAAAAA TATTTAAAAT TTTGAAATTT  
TGGACCCAAA ATTATGTCAG TAATTTTCATG AAAGTAGATC TCCAATAGGT CCTATATTCT AGACACTATG AAATGACATC  
AGAAACCGTC AATTAAAGTG TACCCACAA GTGATAACTA GCTACCATAC AAGTT

SEQ ID NO:1918: (Length of Sequence = 315 Nucleotides)

AATATACAGT ATGATACACT GATGTGCAGA ATGTGATTAG TTTATTAATC ATATGTGAAA ATATTAGTAG CTACATATGG  
CCAGAAATAGA TTTTCTCTC TACAAATGTA AGTTAGTGT GATAGAATTT GTATGCGAT ATTTGGTTCT TTGGTTTCAG  
TCTCAATGCT TTCTCTTGG CATTTTCATTG ACTCTGTAA TTAACCTCAG CATCAATTTT CTTTAAAT CAACAGTTAT  
TCAAATTGAT CGGAAATTAA ACTTGTATGT AGCTAGTTAT CACTTTGGGG GTACACTTTA ATTGACGGGG TTCTG

SEQ ID NO:1919: (Length of Sequence = 285 Nucleotides)

CAGAAGTAAA AGATTTTTAT TGTCTATAG ACACCTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG  
TTTTCATCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAAT  
GATCAGTAAA AACATGCAAA AGTNGAAGG AAAGGGAAAA AGGTGCATTC CCTAAGCTG AGGGGGNTGG AATTTAGAA  
CAGAGWGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCC

SEQ ID NO:1920: (Length of Sequence = 181 Nucleotides)

GCAGGTTTAT TTTTATTTT ATGTATTNA ACTGACTTAT TTKGTATCC CACTAGAACA ATACATTCAC AATATACTTG  
CAGAACTKTG CTGSSGCAT CAGGGGAGCA GAGAACTTT CCAGTGAATA GTTTTGAAG AAAGGAGTAA AATCTCCCC  
AAACCTTAA GGCATCCTT T

SEQ ID NO:1921: (Length of Sequence = 351 Nucleotides)

AGACGGGGTC TCACTCTKTC GCCCAGGCTG GAGTGCAGTG GCGCAATCTC AGCTCACCGC AACCTCCGCC TCCCAGGTTA  
AAACGACTCT MATGCCTCAG GCTCCGAGC AGCTGGGACC ACAGGCACAT GCCATCATGC CCGGCCAACC TTCTGTACTT  
TTWAGTAGAG ACGGGTTTT ACTGTGCCAC ACAGGCTGGT CCCGAATCC CGACCTCAGG CGATCAGCTR CCTCAGCCTC  
TCAAAGTGCT GGGATCACAG ACGTAAACCA CCATGCGGGG CCCAGTCTT TTCTTCAGAG GGCTCCTNAG CACCCCAAC  
CCCAAACCTG AGGCTGTGA GAGTCTATCC G

SEQ ID NO:1922: (Length of Sequence = 198 Nucleotides)

CCTCATCTGG ACACAGATGA TTTGCCAAG AAGCGGCTG CCCAGATCTG CAAACCTTGC AACCCAGCAC TCTTGCATAT  
CTCGCTTAGC GTGTCCACAA CTGGGATGCT AGCTGGGTA AAGATGCTCA CGCAGCCACC AGTGCCTCTG CCGTCCATAA  
GTGCAGTGTG ACTTACCCCTC TGAGAGTGGC ATCTGCTG

SEQ ID NO:1923: (Length of Sequence = 303 Nucleotides)

TTGATTTGCC TATGGTGTGA AATCCTTTGT TATTTTCTA AAAAAATAA ATTTAAAAAG AAAGAAAACT AAGGAAGAAC  
AAGANGCTAT TTACCCAAAG TGAGCTTNC A GTTTAGTTT TGATGGCTG TTTGACTGCC TTTCCGCCCT ATGAAAATCA  
AGAAAATCIT TTTTAAAAAT GGAGTCTGCT TATTTTCCAC TCCTTGCAGA TAATACAAAT TCAGTTTGTG AGGTTGATG

GIGAGTGGG AGCTGTGATG GATCTGTGG CGGGTTTTGG ATGTGTAAAG AATGATATAT ATA

SEQ ID NO:1924: (Length of Sequence = 231 Nucleotides)

GTCCCTCCCTG ATTCTCAACC TTGCAACCT GCCTTCGGTC ACTGCTAGGT CCACGTAGGC TTAACCTTGA TCTTATATGT  
AGGACCGGTC TTCACCTTAA GCAAGAGAAA TGTAAGAAGT GNTTCCCAA CTCAGTTGCT GGCCCGAGCTT TGGCCTCGTG  
TTCCCTTCT GAGGACTGAC CTTTGGTATT GCTCTGGAGT CTCATATCCC CTTTGGCCCT AACTGACCAC G

SEQ ID NO:1925: (Length of Sequence = 249 Nucleotides)

GTTTTACTT AACCATTTCTA TTGTGGGAA TTGGGTTTCC ACTTTTTTNT TATAGATAGT GGTGCAGTGA ACATTTTTAA  
ATAGCTTTTT NCTTCAGTGT AATTATTTCC NTAGAGAAAG TTACCAAGAG TGGTTTTACT AGTTCAGAGG GCTTCAGGAT  
TTTATGGCT CTTCCTAGCG GTGCTCTATT ATCCINNAGA AGACTTGTAT TACTTCCAGT GTCAAGAAGG TTGCNCTTCC  
ATGGAATGG

SEQ ID NO:1926: (Length of Sequence = 367 Nucleotides)

TTTTTCTCAG CAAGGAACAG TCATGAGAAA GAGAATGCGT TCCTAGGGGG AGGTCTCTAA AATGGCCACT CTGGGACTGT  
CTGTCTTATA TGGTTGTGGA TAAGGGATGA AATAAACCOC GGCTCCCTT AGCGCTCCCA GGCCTATTAG GACGAGGAAA  
TTCCCGCCTA GTAAATTTTA GTCAGACTGG TTGCTGTGTC TCAAACCCTG TCTCTGATA AGATGTTATC GATGACAATG  
CATGCCGAA ACCTCATTAG CAATTTTAAT TTGCCCCCGT GCTCTGCCAT TTGCCCTGTG ATATTTTATT GCCTGTGAA  
GTATGTGATC TCTGTGACCA CAACCTATTC GTACANTTCC TCCCCTT

SEQ ID NO:1927: (Length of Sequence = 231 Nucleotides)

CTTTTATTGG GGGCGGATAC CGCAAGGGCC CGCCACGGT CAGGTTAGTG TTCTGCTCTT GCAGAGGGGC KACAGCCTGA  
CACCTCCACC TGCCACCCGC CGGGGTTAG TGGAAATGC AAAGCTCAGA GGGTGGAGGC AGGGGTGGTC GCTGCTGAGA  
CCAGGGCTGN GTGCAACAGG AGGGTCAGCA CAGAGCCTGG CTGGTGTCCC TGGGCCCAA GGGGGCTGGG G

SEQ ID NO:1928: (Length of Sequence = 283 Nucleotides)

CCCCTTGCTT CCCCTGAGCC CAGGTATGTA ATTCTACAC AACTGATCG AGCTTGINTG TGTGTGTATA TGTGTGTG  
TGTGTGINTT AATGTGACAT GCATGTACTG ATCCNGAGAA GCCTTTATAC CAAGAATAGA GCTGGGATCT CAAGCCCACC  
CTCCCAAGAT CAGACAGCAG AGTGAACCAG GAGGCCACGA CAGGCCTTGT GTCARATGGC AGACGNTGCA GCAGGAAGCA  
GAACCACGGG ACGGGGRNCA TGGGATGCTA TKGGCAGCCA GCT

SEQ ID NO:1929: (Length of Sequence = 287 Nucleotides)

CTAGGAAGTA GGGAGAGAAT TTAATAAGTA AGGAGAGAAA GGAAAAAGAA CAAACATGGA ATATGNTCAA GCAAATAACT  
TCCAACAGAA ACAAGANGAT ATGTTTTAAA ATATATTTCC CCTGCCAAT AGTAAACTT ATTTAGGCA CAATGCATT  
CTGAGGTGAA ATTAAAGTGA CATAAAATTG AAAACATCAC ACTGGANAAC ATTTATGGG GCTCACTGA AGGTGGCATA  
GTCCAGGAAG GCATTTGGAC ATGTATGGG TGTTTCTTG TTGCCCC

SEQ ID NO:1930: (Length of Sequence = 357 Nucleotides)

ATGGAACACT ACTGCAACAG CTCACAGAC CGGCGGGTTC TGCTCATGTT CCTGGACATC TGTTGAGAGC TGAATAAGCT  
CTGCCAGCAC TTGAGGCGG TGCACTCTGG CACCCGATC ACCAACAACC TCCTGGAGAA ATGCAAAACC CTCGTTAGCC  
AAAGCAACGA CTTAAGCAGC CTCAGAGCAA AATACCTCA TGATGTGGTG AACCACCTCA GCTGTACGA GGCCCGGAAC

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CACTACGGCG GCGTGGTCAG CTCATCCCC CTCATCCTAG ACTTAATGAA AGAATGGWTC GCCCACTTCG AGAAGTTGCC  
GCGCAAGGTG CTGCAGGGCA CGCGGGCTGC CTGCACT

SEQ ID NO:1931: (Length of Sequence = 343 Nucleotides)

ATCACTTCCC CACCCACAG GATCTGCCCC AGAGAAAGTC CTCGCTGTC ACCAGCAAGC TTGCGGGTGG CCAAGTTGAA  
TGATGCTGCC CGGGGCTCTG CCAGATCCTG AGACGCTTCC CTTCCCTGCC CCACCCGGT CCTGTGCTGG NTCCTGCCCC  
TTCTGCTTT TGACGCCAGG GGTGAGGAG TGGCTCGGT GTGGGCTGGA GAGGCAGAAG CCCTTTCTTG TTGGTGTCCC  
AGCACATGGA GCCCCTTGGG CTGAGCACCA AGACCTTGAA CCTTTTGT TTTACCTTT TTCCAAATAA CAGTTTGAG  
AAATATCAAT GAAATCTGGG GGT

SEQ ID NO:1932: (Length of Sequence = 314 Nucleotides)

TTTATGGGT TTTGTTTTG TTTATTCTGA ATACTGAAAA AGTCCCTTGG GCTCTGTGGG GTTCCCCACG CTCACGGCTC  
CTTTCTCCCA CACTCACTGC CCTCTTCCC ACAGCAAATC TATTTCAAGG ACAGTACTTT TTAATATGAT TAATGTTGAG  
TTCTCACTA GCTCTGCAGA ACTAGAGGAG CTGTTTGCAT CTGCTGTGTC GGATGGAGTT TCTTTTATCT GACACCAGGT  
CTCCAACCAC ACTGATGCAA GGCATTTTAT CTACAGAGCT CAACTAGAAC CCTTTTTC TTAGGCTACT CCAA

SEQ ID NO:1933: (Length of Sequence = 378 Nucleotides)

AGCTTCTGC GGGACCACAG CTATGTGACT GAAGCTGACA TCATCTCTAC CGTTGAGTTC AACCACACGG GAGAGCTGCT  
GGCCACAGGT GACAAGGGCG GCGGGTCTG CATCTTCCAG CGGGAACCAG AGAGTAAAAA TGCGCCCCAC AGCCAGGGCG  
AATACGACGT GTACAGCACT TTCCAGAGCC ACGAGCCGGA GTTTGACTAT CTCAAGAGCC TGGAGATAGA GGAGAAGATC  
AACAAGATCA AGTGGCTCCC ACAGCAGAAC GCGGCCACT CACTCCTGTT CCACCAACGA TAAACTATC AAATTATGGA  
AGATTACCGA ACGAGATAAA AGGCCGAAG GATACAACCT GAAGGATGAA GAGGGGAA

SEQ ID NO:1934: (Length of Sequence = 239 Nucleotides)

ATTTAAATTG ACAGCCTTCC ATTTTTCGAG AAAGTACAAA CAGAAGTCT TTAGCACCCA TCGAGCCCCA AACGGGTAAG  
GTAAGCCAAG GTTTTAATGA CCAGCCAGT ATCTAAGCTT CCAAACGGAT GCCAGCCCAT CACATACTYA CCCTGGGAGG  
CTGCTGCACG GGCATTCTCC YGATGCTCAC GGCATTGGK GTAGGTTTCA RGATCGCCTC TTGAGGAAG GACTTCAGG

SEQ ID NO:1935: (Length of Sequence = 319 Nucleotides)

TTAATTTTT TTTCCATAG AGGAATAGCA TTACAGTCTA ACAATCAGAA TTCTGTTACA CACATACACA GGCATGCCAC  
ATGACCCAGT TGAGGTGGT GTTTCCTTGA GTCTGTGAC ACGTCACATG GTCAAAGTCT CCTCATTTCA GCCAGTCTCA  
ACACAAAACA CCCAACAGG ATGCACTCAA CTGTGTGGT CCATGTGGAA CTAGGTGGCA GGGCGAGAGG GAAAGTAGTA  
GAAGGGGGCT ATGGTGTGTC TGCATTCACT CCCCTCATAT AAAGCCACAT GGATCTAGG GGGGTATCCA AGAGCTCTG

SEQ ID NO:1936: (Length of Sequence = 415 Nucleotides)

CTATTTTAC AAATATACC TAATGAGTAA AATTAGTGA AAGTATAAC ATGCTTCTAC CTGTATTCT AGTGACCTT  
TAGCGGCAGG TATTTATACC TGGTATTAT GATGAGTAT ATAAGTGGT AACATAACT GACAGTATG TGCTTGCTGT  
ACATGTCTG TCTTTGAAA CAGATTTTAG TAAGCATTT CCAGAGGTAA AACTGTGTCC TTATTTCTAAT TTTATCTA  
GGGCAAAGTA GACAGGAGT ATTTCTTGA ATCTATTTCC AAATTAATAT TTTTCTTT GGTATTCTA CACTTTAAGG  
CCATTGGTG CAATTTAGAA AGTGTGGCC TCCCTCCGC TAGCCACATT CAAAATTAAC TTCCAAACC TCAGGAACAG  
TACAAGGAAT TTGAA

SEQ ID NO:1937: (Length of Sequence = 393 Nucleotides)

TCACCTCTGT CACCCAGGCT AGAATGCAAT GGCACAATCT OGGCTCACTG CAACCTCCGC CTCCCAGGTT CAAGTGATTG  
TCCTGTCTCA GCGCCCAAG TAGCTGGGAT TACAAGCACT TACCATCAG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA  
TGGGGTTTCA CCAITGTTGGC CAGGCTAGTC TCAAACCTCT GACCAGCGGT GATCCACTCA CCTGGGCTC CCAAAGTGCT  
GGAATTACAG GCGTGAGCAC CGCGCCAGC CTGINTTTCA TGTTAGATCA TAATATGATC TCACCAGATC CITACTGAAA  
ATGTACCTTA TTACAAGTAG CTAAATTTC ACATAGAGGG NTAAAAAGAT TGGGAATCA GGTTATGACT TTT

SEQ ID NO:1938: (Length of Sequence = 407 Nucleotides)

GGCCTCCCTG TCGGGTGCAA TGCACTGGCT CAGATCATAG CTCCTGCTG TCTCGAATC CTGAGCTCAG GCAGTCTACC  
TACCTCANCC TCCCAAAGTG CTGGGATTAC AGGGTGAGC ACCGCGCCCA GCCAGAACAT CTGTTTTTAC ACCCAGAGAG  
CGCCCTCGT TAGGACAGAA CCACGGTGCC CAGAGCCAGG AAGCGCCCT CTGGCGCCC AGCATCTGAG CTTCTACAG  
TGATGGGG GCTCAGGAGA GGACAGGGAG TGTGTGTGA AGTTCCACAG CTGGCCGCT GGGGGGGCCC TTGCACCGCA  
CTTGCCGCT CTGACTGCC CGATCCCG CAGCCCTGT GCGGATTGC ATTTCCTCC TNICTYCCAG GGTACTGGCC  
CCAGCAA

SEQ ID NO:1939: (Length of Sequence = 412 Nucleotides)

GACATGCCAC CACACCAGTT AATTTTTTGT ATTTTCAGTA GAGATGGGGT CTCACGATGC TGTCTGGGT GGTCTGAAC  
TCCTGAGCTC AGGTGATCCA CACTTCGCC TACCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGCGCCG GCTAAAGAA  
AGGAGATTCT AATGCATGCT ACAACACCGA TGAACCTTGA GGACATGACG TTACGTGAAA TAAGCCAGGA ACAAAGACG  
AAGGCTATAT GAATCCACTC ATATGAAGTA CTOGATTAG CCAATCCAT ACAGAAAGTA GAACAGTGGT TGCCGGGGG  
AGGGGAAAT GGAAAGCCTA TATTTAATGA GTCCAGAAGC TTTTTTTGG TTTTGTTTT TAGACGGAGT CTCGCTCTG  
TTGCCAGGC TT

SEQ ID NO:1940: (Length of Sequence = 421 Nucleotides)

ATCCATCCCC TTGCCAGGG CCTCAGTGC CGGCTCCCC CAACGGTCC TCCCCCTGG GCTGCCGGTG CAGCTGTGGG  
CCCAGGCTTT GGCAGGCCCA GCTCAAGAC AGTGGGACAC AGAAACACT TTGCAGCATC GCCTCTCCCT CGCCACACC  
CAGGTACGA GAGATGGGCG CCCACCGAG AGATCACAGC TCTGTACAG GGAGGTGGGC AGGGTTGGAG AGGAATGGAG  
AGACATGTCA CCTCTATAGA AACCGTCCA AAGTACAAGC TAAGCAGGGG GAAGGAGGAG GGCCAGAGAG CAGCCGAAA  
GAAGAAAAGA GGAACAGGC AGGGGTTCT KGGGAGGAG GGCCTACAM CACCCCGCAG ATGAGCGTCT TCACCAOGAA  
GGTGTCTTC GAAGTKGGG T

SEQ ID NO:1941: (Length of Sequence = 377 Nucleotides)

GTCAGTCTA GAGGCACCT GCATCATGCC CACCAGGGT ATCCCCCTGG GATNGACCAT CTGGGATAT GAGGCCTCGG  
AGGCTGGGT TGAGATTTGG TCCTGAAGAG CTTATAGCCA GATTGCCACA TTCAAGTGTA AGTCCAGGAA AGGGGAGGC  
GGCAGTGCAC AGGGATTTAT CAGTCCAGA ACCTCAGT GATAAGAGGC TTTAGAGAGC ATCTAATCGA GACCTTTAAT  
TTTTCGGGGA GAGCAGCTGA GGCGTGTGG AAAATTAGTG GAGAGCTGAC AAGTGTCTG GCTCCGCGC CAGGGGTCCG  
TGGTCCANCA CGTTGTGTT CAGTTGGAAG CAAAGGGCTT GCGGTGATT ACCTTC

SEQ ID NO:1942: (Length of Sequence = 401 Nucleotides)

TGAGAACATT AAGAAGGACA ACAAATTA ACATTCTTTA ATAAAAATCC TATAGAAAGC TCAGTCATAG GGCAAATACT  
CATTTCTCTT TCCCATATCA CCGAGGATG AGAGCTCCA ATATTCTTG GAGAATAAGC AGTAGTTTTG CTGGATGTG  
CCAGGACTCA GAGAGATCAC CCATTACAC ATTCAAACCA GTAGTTCTA TTGCACATAT TAACATTACT TGCCCTAGC

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ACCCATAATA TATGGTACCT CAACAAATAA CTTAAAGATT TCCGTGTGGC GTGAACCATT TCAATTTGAA CTAATATCCT  
TGAAAAAAT CACATTATTA CAAGTTTAA TAAATACAGT AGAGAGCTGG CATTTTTCTA AATACGGAT TTCAGATCTG  
G

SEQ ID NO:1943: (Length of Sequence = 351 Nucleotides)

CAACTCAGGT TAGCAACTGC AGGAAACTT TCTTCATTTT CACTGAATTT TAAAGAGAGA ATCCTGTCTC TATTTCTCAG  
AGAACTTAG GTGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCTTCATGA GATACTTTTA TTTTATCTC TTTCTCTACT  
CATGTGCTTA ACTGGTGAAA TGATTCTGTA GAAATAGATC CTTCGTATTC TGCATCTCAT TTCTTATGG CAACTACAAC  
AGGAGGAATC CAGCTGGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGCGC CGTGTCTGGG  
TCACTCACTC TGGCCTGCGC ACTGGGGTTG T

SEQ ID NO:1944: (Length of Sequence = 406 Nucleotides)

GCCCAGGCTG TCTCAGAATC TTGATGGGGT GGTCAATGAG CTCCTCTTCC GCCAGAGCAA GATCAGTGAA GTCCTGGGAG  
GCACTGGCTA CAACTCGGAC CGGCTCTGCC TGCCCTACAT TCCTCAGCTG ACAGATGAGG ATCGTTTATC CAAGAGGAGG  
AGCATTGGAG AGAACATCTT CCTGAGGAT CCCGAGGATG GTCTGGTGAA GACCAACATG GAGAAGCTGA CCTTCTATGC  
CCTCTTAGCT TCAGAAAAAC TTGATCGTAT TGGCGCTAC CTCCTTGAGG GGCTCATCCG TGACGTGGGT CGNCATCGAT  
ATGGGTACGT GTGCATTGCT ATGGAGGCTT TGGACCAGCT GCTCATGGCC TGCCACTGCC AGAGCATCAA CCTCTCTGTG  
GAGAGC

SEQ ID NO:1945: (Length of Sequence = 362 Nucleotides)

TCAAATTGTG AAATTNAGAA TTCGTCTATG ACAAGTGGAA AATTGAGAAA AGACGCAGAG CCACTTTTTG TNATCGTGA  
GGTGACAAGG AGTCTCCCAA GTATATCCTG CTAATAGGAG TAGCTCTCAA AAGTTAATCT CAATAAGCC TCCTAAAGTC  
TCTGGCAAAG AAAACTGCTG CAATCCCTTG TGCAATTCTC CAGACTAAGC TGTATGGGGG AAGCCTACCT TTTTTCAGCC  
CGAAGTTCAG GAGACTGAGG ATGTAATCGG GGACATGATC ATTGNTTCAA AGGTGATTGC TTAAGTATCT TAAAAATGTA  
TAGAGCTAAT CTGAGTACCG CTTAAATTCA AGAGCCGTGG CT

SEQ ID NO:1946: (Length of Sequence = 408 Nucleotides)

AACCTCINAC CCCAGGTTT AAGCAGTCTT CCCACCTCAG CCTCCGGGT AACTGTTCTT TGTAACCTCT TCATCATCGA  
GGCTATATAT TAATAGACAT GGTATTAAGC CCACACGAAA CATTGAGAAT TAGAATTGGA TTAAGAAGAC GCGTTTGGC  
ATCAOGCTGA CTACTCTCA TCTCCGTCTT CGGGGAGGGT GATGCCAGCG TGGGACTCTT TGGAGGCCT ATCAATCACA  
GGTGGCTAA AATCAAAAGG TGGGTCACTA GGTTAGGGAG GNGGCGCGA AAGGAGATGC CAGCGGGTGT TAAGAAGGAT  
ATGGTCAGAA GAGCTCTTTG TCTCCATCCA CGGGGCTCT GCTCAGCCCG GTTGTCTCG GTGAGTAATT CGGGAGCAGT  
GCACGGCT

SEQ ID NO:1947: (Length of Sequence = 426 Nucleotides)

CCATTGACA CTGTACTAT CTGCAACAGT TCTTGCACTA GAGGATGCAC TTCAAAGTGC ACTGCTTTAC TGTCTCACTG  
GAATTCIAAA AATCTAAGCT TTATCTTTT AACATTAGC TGTTGGGAA TGTAGCAACC TCCTGGGTGG TGGGGTGGG  
GGCATCTTCA ATTATTTAGG TCTCACTGGA AAGTTTGAGA TCAGAGTTTG GTAGGTGGTG TAAGGGGACA ATGAGTAAGG  
GAGAGAAAAT ACAGGACTGA CTTGGGGCAA AAAACGCTG ATAATAATTT GTGAAGCACA TTTTCAAAC CATTATTTCC  
TTACAAGGAT CCTAAGAGGC GGTATTATG TCNGGTAT ACCTGGAGGC TTAAATTGAA GGAACATCTN CAAGGGCACA  
CAGTTTAATG AATGGCTGAG GTAGGA

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SEQ ID NO:1948: (Length of Sequence = 349 Nucleotides)

TTACAATCTG GCTGGAAACA GATAATTAGA ACATATCACG AGAAACAGAA CAGTTAAGTG CCAAGCTCTG GTGGAGGTTT  
TAAGTGCCAG AGGTCAGGAT ATATTTTAA GTGCTTCTGC TTCCAAACAT CACTCTTTCA AAACAAAACA CAAAGATCCC  
CAACCAGCAT TTCTGCCCC TGAGGCACCA GCAAGGTATA TAAACGGGCT TGCAAAGTTT GATATACGGT CTCCAGCCTG  
GCTTTCTTTA GTCTGGGCTC AAAAGCCAGA AACCTCTGGG GGCCAGAGAA GCGCTCTTTG TTTGCCAAAC AGCATTTCTG  
CACATCCTGT TCTACAGCAC CGTCAGTTT

SEQ ID NO:1949: (Length of Sequence = 378 Nucleotides)

TTCAATCCTG ATTTTATCCC AGCTGTGGG GATATTGATG CATTTCTTAA GGTCCACGT CCTGATGGAA AGCCTGACAA  
CCTTGGCCTA TTGGTATTGG ATGAACCTT TACAAAGCAG TCAGACCCTA CGGTGCTCTC ACTCTGGTTA ACAGAGAAIT  
CTAAGCAGCA CAACATCACA CAACATATGA AAGTAAAAAG CCTAGAAGAT GCAGAAAAGA ATCCCAAAGC CATTGACACG  
TGGATGAGA GCATCTCTGA ATTACACCGT TCTAAGCCCC CTGCGACTGT GCACTACACC AGGGCCATGC CCGACATTGA  
CACGCTGATG CAGGAATGGT NCCCGAGTT TGAAGAGCTT TTGGCAAGG TAAGCCTG

SEQ ID NO:1950: (Length of Sequence = 357 Nucleotides)

TCACTAACTT TACGAATGAA AGAAAACAAT TCCATCCCTC TCACAAAAG GACATCTTTT AAGCTTTCCT CCCAATCTAA  
CCTCCATGGG ATCTCAGAAA TTCCAATTCT TATAACTCAA ATCCCACAG TGGTGTAGAT GCATTAACTC CCGGGGACA  
GCAATCTGAG GCAGGCAGGT TCATTAAACA AACATGTTCT GTGCCCTCTG GCAGAGAGGG CAGCAGGACA TGCCTGCCC  
CTGAGCCAAG CTGTGGCATG GGCAAGGACA TCAAGTAGCT GACAACGGTC TGTCCATCTC AGCTGGGGCA GAGGGGCCAG  
TTCAGCCTTG AAACAGCAGT TNGGGAGTGT CTCAGCT

SEQ ID NO:1951: (Length of Sequence = 336 Nucleotides)

CTATCTCCCC AAATCTACGT TTCACCAITT GTACTGTTAT TTTTITAGCC CAAGCCACCT TTATGTCACT CCTGGAACT  
AATACTGCT TTCTCACTCA TCTCCTACAT TTINACCTCT TATATACAG TCCACCTGT ACOGACAC AAGAGTTATC  
TTCTGAAAT GCATATTAGA TCATGTCACA TCTCTACTTG AAGCTCTCTA AAGATTCTC ACTAAAAGCG AAGTCTAAAA  
TTTCCACCA GACCTATAAG GNCCTTAAAT GATCTTACCT CTCTACCTAC CTCTNOGATC TTACCTATCT TCAACCTGG  
TTCTATTTTC TATATC

SEQ ID NO:1952: (Length of Sequence = 413 Nucleotides)

CAGTATGTAA TTTAATCAGC AAATGCCCA TTTCATCTC TACCGGAAAG CTTTCAGACG CATTCCCAGA TCAGACAGAG  
GACTAGGGTT AAGGCTGGGA ATGAAACACC AGCTAGTATC CCAGTGAGCT TTCCCAACA CACATACACA GCAAGTCAGA  
CTAAACAACG TCCAACGTAA GACTCACCTC AAATACTTAG ACCTAAGATT CACGTCCAGG CTCTTTCAGA TACACCAGGT  
AAGTAAGCAC TTGGCATTCC TATCTCAGCC ATTCACTTCA CAGAATCTTT TGGGTGCCIA CTGTGTGCC AATACTGTGC  
TTAGTGGTAC TTGCCCTCAG CAGGAAAAA AATTAAAGT GTTAAATGTT ATGAAGGAAC AGATTGNNAT AGGAATCACA  
AGGCATTGAG GTC

SEQ ID NO:1953: (Length of Sequence = 382 Nucleotides)

GTTCACTCT TGTGCCCAG GCTAGAATGC AGTGGCGATC TTGGCTCACT GTAACTCTG CTTCCCGGT TCAAGTGATT  
CTCTGCTC AGCCTCCCTA GTAGCTGGGA CTATAGGTGC ATGCTGCCAC ACCCAGCTAA TTTTITGTGA TTTTITAGT  
AGACAGGTT TCGACATATT GGCCAGGCTG GTCTTGAAT CCTGATCTCA AGTGATCTGC CCACCTAGGT CTCCAAAGT  
GCTGGGATTG CTGGCTGAG CCACGCCACC CTGCCTAGAA CATGCTTTIN AATAGTGTCT CTAACCATCA TGTITAGGGC

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CTTAGTGCTT ACCTCTTAAA GAAGGGCTGC TGTGTAGGAT TCCNIGAGAT AGTGTGTGAA AA

SEQ ID NO:1954: (Length of Sequence = 389 Nucleotides)

GGAAAAGCGG GACCCAAACA GTGGTGCTGG GGAAATTTGT TCCTGTTCCTC TTGGGAAGGC TGAGTGGGTG ATGCAGCACA  
GGAACAAGGC TTGGACGTCA GAGGTCTCAT CTTCACITGTG ACAAAGCATA AAGGACTTGG GGTGTAGCGT GTGTNITGGGC  
TCAAGTGACC ATGCAAGTNC TGTCACCTCC TTCCTAAGAC CCCATCCTTC TCCCAAGTCC TCCACAAGAG CTACCTTCTT  
CAAAACAATA ACAGAAACAC ATCAAGNTIN GCGTCACTGA AATTGAAGTT CTGAATTCGT CCGTCACCCC AGCAACAGTG  
CCAGTTATGA TGAGACACTT GACCCAGCAC TTGGGTTGAT GTCPTTGGCT GTTACCGTGG CACCTAGGT

SEQ ID NO:1955: (Length of Sequence = 277 Nucleotides)

GCCTCTAACT CCACGGCTCA AGTAATCCTC CTGCCTCAGC CTCCTAAGTA GCTAGGACTA CAGGTGCACA CCACCACACC  
CAGCTAATTT TTTTNCITTT TGATTTTGG TAGAGATAAG GTCTACTAT GTTGCCAGG CTGGTCTGAA ACTCCTGGCC  
TCAAGTGATC TGTCTTAGCC TTCTGAGTAG CTAGAAGTAG TTTAATGAC CNAAGAATT ATGTGTTCAC CNGTGATTT  
ATGTGTTTTG TTAAGACATT CAGAATTTAG AGAAATG

SEQ ID NO:1956: (Length of Sequence = 380 Nucleotides)

GTGTAATGTT CTGAGGGTGG CGAATGCAGG GCGCGTTC TCCGCTGTC GATCTGGAAC ATCTTCTCGC CAACAAAGAG  
CAGGGTGAAG ATGAGGGCAA GCTGGTAGAC AGCATGGCCC AGGATGTTCT TCATCATGGT CCTGGAGATG AGCGGCTTGT  
TGCGGCGTA CGGTTTCTC AGCAGCAGG TCTCGTGGG CGGTCAGTG GCCAGTGCCA GCNAGGCAAA CGTGTCATG  
ATGAGGTTCA CCCAGAGCAT CTGCACGGCC TTCAGAGGGG AGTCTGCGT GATGCAGGCG CCTNTAAAGC CACAATCAG  
GCCACCAGT TGACGGTGAA GCTGGAATT CAAGAATTIN GAGATGCTGT CATAGACGTT

SEQ ID NO:1957: (Length of Sequence = 328 Nucleotides)

TGTGATGTTT CTTTTTAGC CTGTTGATGT GGTGAATTGT ACTGATTGAT ATTTGAATAT TAACTGGCT TTGCATCCCT  
AGAATATACC TCACCAGTC ACTGTGTACT AGGTTGGTGC AAAAGTGCTT GCCATTTTGG ACCATGAATT TTGAATCATT  
AAAAGTAGGC TCAAACACAT CTGTATTAAAT CAAAGTAAGA ACCATTACAA TCAACACAAT TTGCCAACA AGAAATAAGT  
TTGTTTACTC CTGTAGCATA AAAATCCGTG CTTTGAGATT CGAGGAACCT TTGGNAAGCA CTTTCTGCAT CCTGCTGGT  
GTGGAAGC

SEQ ID NO:1958: (Length of Sequence = 254 Nucleotides)

CTAGAAAGTA TCTTCTCTT ATTTAAGTTA AACAAATTC AAGGATGGT TCCATCTATA AAATGGACAA AGTACAAGCT  
CTGTACAGCA GTTCTTTTA AAAATCAACT GGAAAAAAA ATTACCAAC TATATTTTGA ATTTGCAAAA CATACTCACA  
GATACCATCA TCTGAGCTTT TATGAGGCA TAAGAAAGN CCACCACAGA GAAGACAAT AACTTCGGCA CGCTTTGCTC  
GAAGGGCTCT TAGG

SEQ ID NO:1959: (Length of Sequence = 259 Nucleotides)

GTAATACGAG AAAAATCACA ACAGAGTAAT AAGATATAA AACTTTCACA ATTAACACTC ATCAGTGTGA TAACTAAGC  
CCATGTAAAA GTAAAAATCT CTCACAGTTA ACAAACGTCT TTAATTTTAC TAAGAAGGAA CTGAAATTAA AGTCCTTAGT  
CACTTTGGAG GTGGCTGCAA AAGCTCACA CATAGTTGAT CCTTAAATA ATTATGAATG GCAACCAGTG CTGCCTTTCT  
GTACTCAACC ATGCAACTG

SEQ ID NO:1960: (Length of Sequence = 329 Nucleotides)

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GACTACAGGT GTGCCCCACG ATGCCTGGCT AATTTTAAAG GTTTTGTAG AGATGGGGTC TTCCTATCTT GCACAGACTG  
 GTGTGGAATT CCTAGCTCAA GCAATTTTCC TGTCTCAGCC TCACAAAGTG CTGGTATTAC CCGTGTGAGC CACCGTGCTC  
 AGCCCCAGTCA TGTATTTCTA ATTATTGTAT TTGTGAACTA ATCTATGAAC AACAAAAACA AACAAACAA CAAAAAGGGT  
 GGCATTTCTG GCCCACCAGG GAAGGTGGGA TTGGGGTTC AGCTATTTTC AAATTATATT AAAAGCAGGA TCCAGTTAG  
 AGCGCTATC

SEQ ID NO:1961: (Length of Sequence = 282 Nucleotides)

ATCTCCAC CTCAGCTCC CAAAGTGGT AGATTACAGG NTGAGCCAT CGACCCGGC CCAATTATTC TTTCTAAACC  
 ATTTCTCTT CTGTGTCAT GCCTTAAAA ATAAATTA AAAAAAAAAA AAAAAATC CTAAATTT CTCAGGTGTT  
 TTCCATATCA TTTTATTATC AAGAATATGG CTAATCAGAA GTCACAGCCA GCCCCGAAC TACAACATA AAACATGCAT  
 ATTATAGGCT AACTGAGGG ATTCTGAGG TTAGCAGATG CA

SEQ ID NO:1962: (Length of Sequence = 328 Nucleotides)

TGCTGGTGC CCTGCTGTC TCTCAGGAG GCCAAATCAG TCCAGCCTC TCCACCATC TTCCCTGCAG CGATTCTCTC  
 GAGCTGAAA CATCTCTGG GTTGTCTGG CTGACCACTC TGTGCTCTC CATAACAAAT ATTACCAGAG TATTACGAC  
 ACTGCTGAGA ACATTAATGT GAGCTATCCC GAATGGCTGA GCCCTGAAGA GGACCTGAAC TTGTATACAG AACTGCCAA  
 GGCCCTGGCA GATGTGGCCA CGGTGCTGG ACGTGTCTG TATGAGCTTG CAGGAGGAAC CAACTTCAGC GACACAGTTC  
 AGGCTGAT

SEQ ID NO:1963: (Length of Sequence = 277 Nucleotides)

CCAAGAGACA CCCCCGCAC TCTGTGCCC GAGCTGTCTC ATCTGTGATT CACAGTCTGC TCTTTCTGGC TGCTGTCTG  
 GAGAAGTAT TTINAACCCC GAGGTAGAA AGGGAGCTAT TTTTGTGCTG CTTTTGTGTA AAAGGCAAT TTTCTGTGG  
 GGACTGGCTT TACCCGCTCT ACCTAAATCA TTCTTACTG CCTCTGTAA CAGTCGCCIT TTGTGTCTG CTGNNATTG  
 TTTGAACACA GTCCACAGGT TCAGTGGTIN CATCTCT

SEQ ID NO:1964: (Length of Sequence = 230 Nucleotides)

CAATGCAACC TTTTAATTCC AAGCAGAGTC CCCCCTCCCC AGCATGGTCA CACACACAGT GGAAAGGGAT GTCAGGGTCT  
 GGGCAGGAGC AATACCCAGA CCTGGGCAA AATATAGATA TCATTATATA CACACGTGGA CTGGAAAGAA GTCAAGCTGG  
 GGTGTAAAG TAGGGCAGGG GCAGGTGAGG AAAGCAGCTG GGGGGGCCCC AATAAATTAC ATTCTTGAGA

SEQ ID NO:1965: (Length of Sequence = 299 Nucleotides)

CGCCGTGGAT CCGAGAAGG CACAGCAGAT GCGCTTCCAG GTGCATACCC ACCTTCAAGT GATTGAGGAG AGGGTGAATC  
 AGAGCCTGGG CCTGCTTGAC CAGAACCCCC ACCTGGCTCA GGAGCTGCGG CCCCAAATCC AGGAACTCCT CCACTCTGAA  
 CACCTGGGTC CCAGTGAATT GGAAGCCCCT GCCCCTGGGG GCAGCAGCGA GGACAAGGGT GGGCTGCAGC CTCCAGATTG  
 CAAGGATGCA GACACCCCCA TGACCTTCC AAAAGGGTCC ACAGAACAAG ATGCTNCAT

SEQ ID NO:1966: (Length of Sequence = 320 Nucleotides)

GTCCCTGCAC ATGCGTCTGG CAAGACGGGT CAGCTTTGTG GTCTGAAGCA GGAAAGTTTG TCTGINCTTA GCCAGTAGCT  
 TGGCCCTGTT GCGCTGGTT GTGTAAAGAG AGAGACTTTG AGCTTCAGGT CTGGATAAAT NACCCCTTGA GTGTGGCTCC  
 GTGTGCCCC GAGTGGCCCC CTCAAGCTGA GTTGGGGTCT TCAGTCCCC ATACTTCTTC CAGTAGATCC AACAGGAAGC  
 ACAGAGGCGG CACTGCATGT TAGGTGGGCC CCAGGCATAC CACTGAGCAG ACTGTGTGGT GTGGCAACTC TCACAAGTCA

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SEQ ID NO:1967: (Length of Sequence = 296 Nucleotides)

GCTCTGCTGG CCGTGCAGAA GCTCATGGTG CACAACCTGG AATACCTTGG CAAGCAGCTC CAGTCCGAGC AGCCCCAGAC  
 CGCTGCCGCC CGAAGCTAAG CCTGCCTCTG GCCTTCCCCT CCGCCTCAAT GCAGAACCAG TAGTGGGAGC ACTGTGTTTA  
 GAGTTAAGAG TGAACACTGT TTGATTTTAC TTGGAATTTT CTCTGTTATA TAGCTTTTCC CAATGCTAAT TTCCAAACAA  
 CAACAACAAA ATAACATGTT TGCTGTATAA GTTGATATAA AGTAGGTGAT TCTGTA

SEQ ID NO:1968: (Length of Sequence = 311 Nucleotides)

ACCCCTTCA CTCCTCCCA CCAGCTCTGC AGCCAGCCTA TGGCAATTAT ATTTTAAGAG GTGTTCCTAG GACTTTTGGG  
 ACCTACTAAA ACAATGATGG TTATTTTAGA TGTGATGATT TATATTTATG TAGAGATATT TCTGGACCAC TCAAGCTCTT  
 CGATACCAA ATCAGGAGCA TCTTGGGATT TATTAAATTA TGTAAGAAGA TAGCACAGAT ATCGGGATAT TATTGTGTGA  
 AAATGCTGCT TTTACTTTGA TGTGATCTCA TTGATGTACA CAACCAAGTT CCAATAAAGT GCTAGAATGT G

SEQ ID NO:1969: (Length of Sequence = 266 Nucleotides)

CAATAATAAA AAGATTATA TTCTGATAC ATGCAATATG GGIGAACCGT AAAAATATCA TGCTGAGCAA GAGAAGCCAA  
 ACACAAGAGA ACATGTTGTT ATGATTTTAC GTACATGAAA CTTTAGTAAA GACAAGTCTA ATCCATAGTG ACAGAAAGCA  
 AATCAGTAAC TGCTGACAGG GGCAAATGAG GNGATGATCT CAAGGGNACC TTCTGGGGTA AGACGCTGTT CTGTATCTCG  
 ATCGNATTGG TGTCACACA AGTGAA

SEQ ID NO:1970: (Length of Sequence = 317 Nucleotides)

CTCGGGAGGC TGAGGCAGAA GAATGGGTTG AGGCCAGGAG GCGGAGGTTG CAGTGAGCCA AGATTGCGCC ATTGTACTCC  
 AGCCTGGGCC ACAAGATTGA AACTTCATCT CGGGGAAAAA AAAAATGAGC TAAATACAAG AGATGGTAAT GCAGGAAATG  
 AGAGAGAAAG AAGCTATAGA ATGCACCATC AGTCTTTGCT GAGAGGAGAA GCTAGGACAC TTATGCGCAT GTNCTGTCT  
 GCCTTCCTTC CCGTCCCGCG GATGGTTGGA GCAGGTCTTT GTTTGCTGCA GAGCATGCCA TGTCATCCTC CTGTGCT

SEQ ID NO:1971: (Length of Sequence = 263 Nucleotides)

GTGCATACTG CTGAGGCGGC TACGCTGGCA GGGTAAGCAA AAGAAGCACC CCAGCCTAAG TTTACAGAGA ACCAGGACAT  
 CATTTTGAAT ATAACCTAGT TCTAATAGTC AAATGGCCAC TCAAGGTGAC AAATAGGAAC TTCAGTGGTC ACCCCTCGGA  
 AGCAAGCTTT CAATGTCCCC CACCTGTAGA AGGCTGAAAA ACATCCTCCA AAGATAACAG GTTCCAATCA CTGGAACCTG  
 TATTACTTAT TACCATTAAA TAT

SEQ ID NO:1972: (Length of Sequence = 295 Nucleotides)

GACAAAGAAA GCAGAATAAT TTTACCTGAG AAGAAACCAG GAGGCTTCTT CTCTTCTTC TCTCTCTTT TTTTCTTTT  
 TTTTGGACTA TACAGAAGAA AACTATCAGA GTTAGGTTAG AGAGTTGGGT TTGGGGTCAG GTTGTAGCAT GTGTTATATT  
 ATGGGTTAAA TTGTGTCTC CCCAAATTA ATATGTTGAA GTCTTAACTC CCTGTACCTC AGAATGTGAC CNCATGGGGA  
 AATAAGGTCA TTGCAATATA ATTAGGTAAA ATAAGGTCAT ACTAGAAGAG GGTAG

SEQ ID NO:1973: (Length of Sequence = 243 Nucleotides)

AGACCGCAGT CATCTCAGC ACTACACGA GGCCATNTNC AAGCTGACCG CAATGCTCAT TAGCAGTAAA GATTGTNACC  
 CGCAGCTCCT TCATCATCTG TNCCTGGGTC CCTCCGGAT GTTCAATGAG CATGGCATGG AGACGGCCCT GGCCTGCTGG  
 GAGTGGCTGC TGGCTGGCAA GGATGGAGTG GAAGTGCCGT TNATGGGGA GATGGCAGGG GCCTGGCACA TGACGGTGGN  
 GCA

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SEQ ID NO:1974: (Length of Sequence = 304 Nucleotides)

GGATGAGATG ATCGACGTCA TCGGGGTGAC CAAGGGCAAA GGCTACAAAG GGGTCACCAG TCGTGGCAC ACCAAGAAGC  
TGCCCCGCAA GACCCACCGA GGCCTGCGCA AGGTGGCCTG TATTTGGGCA TGGCATCCTG CTCGTGTAGC CTTCCTGTG  
GCACGCGCTG GGCAGAAAGG CTACCATCAC CGCACTGAGA TCAACAAGAA GATTTATAAG ATTGGCCAGG GCTACCTTAT  
CAAGGACGGC AAGCTGATCA AGAACAAATGC CTCCACTGAC TATGACCTAT CTGACAAGAG CATC

SEQ ID NO:1975: (Length of Sequence = 233 Nucleotides)

CCTTCCTCAT CACCCCTGGA CCCTCTCTGA GTGGTCTCTC AAGGCACATT TATTTCTCTT GCTGCAACCT ACCAGATCTG  
ACATCCACCT CCCCAGCAC CCATGGGCA AGGAGGCCTG GGGCAGCCAA GGGGAGTCC AGGACCAAGC AAGCAAGAAA  
CCGTCTCTTG AACACATGGT TAAGCTTCTT CCAGCATGGC CTAATTCC CTACCTGCCT AAGCCAGGG AGT

SEQ ID NO:1976: (Length of Sequence = 162 Nucleotides)

AAGTGTTACA AGCCCCAGAA TGCTGCCCCG CCTGCCCCGC TGGGCGGACT GTCTGTGTGT CTGTNCTCTT GGCCTTCCAC  
CTCCAAGCCT ATACCAGCTG TGTACAGCGC CATCTCTCTG CCTCTGTGTG CCCCTCACTC ACCAAACAG TGTATTATA  
GC

SEQ ID NO:1977: (Length of Sequence = 270 Nucleotides)

GGCTGAATTA AGAGCATCCA GAAAGCCCAG GCCCTCCATA GGCTGTGGCG GGATGATCTT CACTTTGATC TCCTTGGTGG  
CATTAGGTGT TGTGTGAGT GGCTGTGATT TCTCTCTGCG AGGGGGAGTG GCATCTCCTG GAGCAGCTAC GTTGCTCTGA  
CGTTTGAGGG GGATGGGTTT AAGGTGTGAC TTGTGAGAAA CCACCACTGT GCTGGCATTG TTCTTCACAG GCACCAAGGA  
TGTGTCTCC AGCTCTAGTC CAGTGAACG

SEQ ID NO:1978: (Length of Sequence = 167 Nucleotides)

TTGCAGGAGT TGCTGATATT TATTCAAACG TCATCCATAC AATAAAGAAC TCNCTTTTA AAATCCATT TACATCAGCA  
GTTAAAAAAA AGTGACAGTG GATGAAACAT GANGCTGTAA AGTGCCCTTA TGGGGAATNC AGCCAGCCT GCCTCCACTG  
TGCIGGG

SEQ ID NO:1979: (Length of Sequence = 346 Nucleotides)

CATCATAGCA ACAAAGGGCT ATGTACTATA CTCAGGAAAA CCATTTATTT GCACTGGAGG CAACTGTTCT TGAGAGAGGA  
AAAGTAAATT GTCCAAGATG TAACATCTTA TAAATAGCAA AGCAAGGATG AAAATTATTA TATTINACTA AATCAGTATG  
AGAATCCTGA TTCTTCATTA TTATATCCCC AACACTCTAT CAGTTTGTG AACAAATCAA CAAATAAGCT TGAATAAAGG  
NTCCACATCT CAATTCTCCT CCACCATCT ATATTGCCCT TCATCCCTAC ATTAAAATGN TTATTTCTGC TTTTTTCTT  
TAACAATTA TCCTAAAGT AACTAG

SEQ ID NO:1980: (Length of Sequence = 174 Nucleotides)

CACAACTGA CAGAGGAGAC AGGAGGAATT TAATATTACA TGCTATAATG ATATTTATCT CACAGTTTAT ATTTATTCA  
TTTATATTAT TTTTAAAAA GGTTCCTTA TCAGCTACTA AACATCTCAG CAATTGGTG TGCATAGCTC TAGATTAAGC  
AACAAAGAT TGTA

SEQ ID NO:1981: (Length of Sequence = 276 Nucleotides)

TGGNCTACTC ATAAGTTTTC AGTGGTTAAT TACTACAGTT TAAGAAGAGC TGTGATTAT TTTTAGATCT GACCCAGCAG  
ATCATACCTN TNCNITGAAT TACATGGTCT TCTTTGGCT TCTAAGATGT CACACTCTG TCTTAGTGGC CACTGCTCCT

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CAAGCCCCCT TTGCTAGCTC TTCTCATCT GTCCAGCCCT AACCTGACCG TGCTATGTAA GTCTTCTCCG TTTTCACCCC  
CTNCCNGGGT GACCGTTATA CTNCCAAACC TACAGG

SEQ ID NO:1982: (Length of Sequence = 288 Nucleotides)

GCTGCAGAGA GGTGTNTCC AGGAGCAGGC TTTCCCGCTC GGGATCCAGG TCATCCCCCA CCAGAGAAAT TTCACAGCCA  
TCCAGGTTGT GCACAATCTC ATCCGACATG CGTGTNTCTG TCACTGTGCC CTGCCAACTC TCATCCTTTT TGGCCTCCAC  
CTGGTGAGAA ATGGAGCAGG TGATTGAAG ATCAGGGAAC AAAGGGACGC CGTTGGTTCC CTCAAAGTCC ACAGCTNGGC  
GGGCAAAATG AGCAGTGCCA CTCAGCAGGA TCTGGGGGCG GTACAGGCT

SEQ ID NO:1983: (Length of Sequence = 273 Nucleotides)

CACAAGCCAC TTTCAGCTC CAGTGGGAAG GCTCCAGCCA CAGCCCGATA TTTCGTCTG CTTCCTGTC TCTCATATCT  
AAAAGTCATG GCTTAAGTGA GGCAATAAAA CCTGTGGCTT TAGGCATCTT TAGTAAAAA GCTGAACAAA TCCCAAATTT  
ATTCCCATTT TCTTGAGAAA TAAACTTCAT AAAACAACAG ACAGCTGTCA TGATTACTGA GTTTTGGCTG ATGGCGAAAT  
AATTTTATG TAAGTATACT GAATAACAT ACA

SEQ ID NO:1984: (Length of Sequence = 221 Nucleotides)

GAAGAGGCTG CTCTGGCTG GGACACCCC ACTGCTCTCA AGGAGCTGGC ATCTCAGTGG CCTCTNAGCC CAGCCTGAGC  
CCTGTGGGAG TNCGGGGCA GTGACTGGAA TGTTCTGCTG GGCAGGCTGC AGCAGCCGAG GTGGCCCCAG GGCAGAGGAG  
TGCAGCGCAN CTCATGGGTG CCTATGCCA CCCCTGGTGC TCACTGGGCT GCTGATGCCG T

SEQ ID NO:1985: (Length of Sequence = 197 Nucleotides)

TTGCTACCAT GAGGGAAGTG CTGTTGCTT GGCTACAGC AAGTATACA GCCTGCGAGG CACAGTCCCC AAAAGTCTAG  
CTGCAATTCT ATTGGTGGTT TTCCCCAAC AGCAATAACA AGATGTTACC TGAAGCACA CCAGAGCCAA TCATGACTCA  
GGCCTGTCTA GATGTTTGA TGCTGGAAA TATATTT

SEQ ID NO:1986: (Length of Sequence = 268 Nucleotides)

CACTTGGACA TTCTCTTTA TTGTTACAT TCCAACCCAG CACAGTCACA TGCACACAG GAGATCAGAA ACCTTTNGGC  
CACAGCCCCA GGAGCCCCGC GGGGGGAGG GCGGGACCGA CAGGGGCGG GCGGGGCCGT GGAAGACTCC TCCTACCGAG  
CCTCCAGGC GNTGGCGTT TGCATAACA AGAGAGCTGG AGAGGNTGCC CTCACAGTG CGCTGGGGA AGGGAGGGA  
ACGTGACAGG CAGGTNNGG ATAGGGAC

SEQ ID NO:1987: (Length of Sequence = 282 Nucleotides)

GTCTCACTG TAAACAAATG AGGATGGAGG AACTGAGAG GNTCAAATAT GAAAGGCAGT ATGGGGAGTT AGAGCCACTC  
GTCTACTCT GTAAAGAGCA TGACTACTCA CAGTCTTTCT AGCGGTAGT CACTCTTTCA TTTAACAAAT ACTTAGTCCC  
TGCAATGATC TAGGATAATA ACTCAACAGT GTATATCAAG AGCCTTTAAA AAGTTATACC TGGCCGGGCG CAGTGGCTCA  
TGTATGTAAC CCTAGCACTT TGGGAGGCCA AGGCAGGCAG AT

SEQ ID NO:1988: (Length of Sequence = 226 Nucleotides)

GTGAGGGGT TCGTCTCTC AGGAAGTTAG GCCATAATTT CTGCAGGTT AGTGATTAAC TTGGATCCAT CCCATGCTGT  
CTTGAAGTGT TCAGGAATGG GAAATTCTCT ATAATACCA TCCTGAGGGA TAAGTATGTT CATTTCAGAT GACTTGGCCG  
TCACGNTCT ACAGTCTAAT GCATCTTCA TGAGGTATAT GTGGCAACCT TCCTCTTAT TAATGG

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SEQ ID NO:1989: (Length of Sequence = 193 Nucleotides)

CTCCCTGTAG GTCATGTCCT TGAGAGTTAA AAGATGGGTT GAGTAGGCAG AGGTCTCAGG CACCGGGGAC AGAAGACAAG  
GACATTCAGC ACGGGCAGCC ATGCTCTTCC CAGCACCCAG AAAAGGCCCA GGGCCCGGAC TCCTGGGTGT GGTTCATGAGA  
AGGCCTCCG ATTCAGCCTC TTCTCTTCTT GTG

SEQ ID NO:1990: (Length of Sequence = 223 Nucleotides)

CTGCTTCATT TACCACCACC AGCCGATGGA CCAGTTTATT GGATTCACCT ATGATACCAG GACTTTTCCA TTCAATTCAA  
TTCAACAAAC TTTTAGAGAT CGCCCTTATT CCAAGCTCAT CCAGGTTCTG CTTTCATGAAG GCAGGCTTTG GCATATCAGA  
CATAAAAAGC TGGAGGAACT TGAGGATTCT TTTGTGGGTA AGTATATAAA GTGCATTCCC ACT

SEQ ID NO:1991: (Length of Sequence = 385 Nucleotides)

GCAGAGAAAG TGCCAGGCAT CAACCCAGT TTCGTGTTCC TGCGCTCTA CCATTCCCCC TTCTTTGGCG ACGAGTCAAA  
CAAGCCAATC CTGCTGCCCA ATGAGTCACA GTCCTTTGAG CGGTGGGTGC AGCTCCTCGA CCAGATCCCA TCATACGACA  
CCACAAGAT CGCCGTCTG TATGTTGGAG AAGGCCAGAG CAACAGCGAG CTCGCCATCC TGTCCAATGA GCATGGCTCC  
TACAGGTACA CGAGTTTCT GACGGGCTG GCGCGGCTCA TCGAGCTGAA GGACTIONCAG CCGGACAAGG TGTACCTGGG  
AGGCCTTGAC GTNTGTINGTT AGGACGCCA GTTCAACTAC TNCINGCAG ATGACATCAT GGAAG

SEQ ID NO:1992: (Length of Sequence = 312 Nucleotides)

GGCTTACAGG ACAGAAAGT CCCTTCTCAC AGTTTGGGAG GTCCGAAGTC TGAAGTGAAG CTGTCAGCAG GGCCACACCC  
CCTCTGGATG CTCAGGGGA GGGTCTTTG CCTCTTCCAG TTCTGGTGGC TCAGGCATT CCTTGTCTTA TGGTGGCATC  
ATTTCATCTCT GCTCCGCTT CACGTGGCCT TCTCTGTGTT GTCAAATCTC CTCTCTGTG CTCTGTGAAA AACACTCGTC  
ATTGGGATTT AGGNNCCACC CCAATCTAGA TGGTCTCATC TTGAGCCITT ACTTTAGTTA CCTCTGCAAA GA

SEQ ID NO:1993: (Length of Sequence = 429 Nucleotides)

CTGTTTTTAC TCGACGAGGA GAAGACCTTT TCATGTGTAT GGACATACAG CTCGTTGAAG CACTGTGTGG CTTCAGAAG  
CCAATATCTA CTCTTGACAA CGAACCATC GTCATCACCT CTCATCCAGG TCAGATTGTC AAGCATGGAG ATATCAAGTG  
TGTAATAAAT GAAGGCATGC CAATTTATCG TAGACCATAT GAAAAGGGTC GCCTAATCAT CGAATTTAAG GTAAACTTTC  
CTGAGAATGG CTTTCTCTCT CCTGATAAAC TGTCTTINCT GAAAAAATC CTACCCGAGA GGAAGGAAGG GAAGAGACTN  
ATGAGATGGA CCAAGTAGAA CTGGTGGGAC TTINGATCCC AATCAGGAAA GACGGCGNCA CTNCAATGGG GGAAGCATAT  
GAGGGATGAT GGACCATCAT CCCAGAGT

SEQ ID NO:1994: (Length of Sequence = 377 Nucleotides)

TGGGGTGGC AAACCAAGTG CCCTGTCTT GTGTCAGCCA GCTGTGGCAA TTTCACCCIT ATTCTTGGGA GAGGCCAGCT  
GCCTGCTGGA AGGAGTCAGA AGTCGGTGA TGTTCATGAG GCCTTGGAGG CCCAGTNTG GCGGGAGAGA AATCCACACC  
TGTGCTGGA GTTCTCTTTC CTGACCCTC TGAACCGCG CTTAAATGC TGTCCCGCTT GGAACAGGGA GGCCACATCC  
AGCAGTGGT CCTCAATGTC CTGCCCCAGC CTGTGGGAAT CCGTTTTTGT GCTTGATTTT TTGCTGGAGA TGTGGAAGGT  
GATCATGCCA TCCCCATGA AGATATAAGA AACANCATAA CCATGGTCAT CAGCAGG

SEQ ID NO:1995: (Length of Sequence = 341 Nucleotides)

GGACCTATAT GGCCATGCTC TGGCTCTACC CTGCGGAAGC CTGATCCCGG TGTGTGGCCC AGCTTGTTC GGCCTGCGGA  
TGCTGCATCT CCAGGCAACT ATGCATTTTC CCGGGGAGAG AACAGTATG AGAAGTGGG GCAGGGCACA CATTCATCTT  
TGTACCTGCC TCTTTGGTTT GGACCTGGCC AGTCGGGTCA CTGCTCCAC GTCTGAGGCC CCGCCAGCTG GCCGTCTGTC

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CTGCCAGCC TCAGGCTGCT GCGCTCTCTC GGCTTTTACG GACCTCTGAG GCCGAAACCC CACCTCGAAG TTTCCTCGTG  
ACAGTGGCTC CGAGTCCACA T

SEQ ID NO:1996: (Length of Sequence = 316 Nucleotides)

GCATATGGTT GGTGAACAGT TTTCGAGCCC TAGGCTCCTG TACTGTGGGT GCACCGCCGC CCGGGCAGCC GCTGGCTCCA  
GCTCAGGAAA CAGCCCCGGG CGCCCGCCG CTCTGAGTCC AGCCTCCTAC TGAGAACAGT CCTTCCCTTG TGCGGGTCGC  
ACGGCTAGCC GCAGGTTCGG CCACGTCAA TCCATTTTNT AAAAAAGCAG GGAGCAGAGC TCTCTCTTCG CCGCCGACGC  
AGAAAGGAGC TNGGGAGGAA AAAGCTGCTG CCITTTGCGC TGGAGATTTCG TGGCAAGGC TTCTCATTTT CCCAGG

SEQ ID NO:1997: (Length of Sequence = 320 Nucleotides)

GCAGGTTTAT GTTTTATTT ATGTATTTTA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTTCAC AATATACTTG  
CAGAACTGTG CTTGGGTCAT CATGGGAGCA GAGAACTGT CCAGTGAATA GTTGTGAAG AAAGGNGTAA AATCTCCCCC  
AAACCCTAAA GGCATCCTTT TCGTAGTGTG TGTCCTATAG GTATGGCTGC TGAGCACCAG GGCTGCTCAC CATGCTCCCA  
AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTTATTAAG GTGCACANCC ATGTCTGAGC CCCAGCTCTC TCCGNTTCTT

SEQ ID NO:1998: (Length of Sequence = 395 Nucleotides)

TTTGATGCTA TGGCGCTGGA CCCAGGGCCC TCCAGGCCA TCTCTGTTC TCIGGGGTGG TCCAGTTCTA GAGTGGGAGA  
AAGGGAGTCA GGCGCATTTG GAATCGTGGT TCCAGTCTGG TTGCAGAATC TGCACATTTC CCAAGAAATT TTCCCTGTTT  
GGAAAGTTTG CCCCAGCTTT CCGGGGCACA CCACCTTTTG TCCCAAGTGT CTGCGGTTCG ACCAATCTGC CTGCCACACA  
TTGACCAAGC CAGACCCGGT TCACCCAGCT CGAGGATCCC AGGTTGAAGA GTGGCCCCIT GAGGCCCTGG AAAGACCAAT  
CCTGGGACTT CTCCCTTGA GAGTCAGAG TCANCCGTGA TTCTGCCTGC AACTTATCAT TGATCTGCAG TGATT

SEQ ID NO:1999: (Length of Sequence = 337 Nucleotides)

GAAAGTATTT GTGTGATTGA GTCACAGCT GAATCAATCT TCATATAATG CCATTTTTGC TTAAAAGAAT GCCAGACTTG  
GGCATTAGGC TGACATTTT TIGAAAACAG TGAGGCTTTG CTTTAGGGAA AATAGTGGTA GTATTTATGG TCGATGATAA  
AGTTCTCTAGA TTITAAGCAA AAATTTTAGA AAGCTTGTAT CAGCTGCTGT AAGTATATAA TGAAATCTGT CATTATTTGA  
TTATCTGCAT AACTGAGTCA GTATTTCCAA ATGATCAATG CATAGTATTA TAAAATCAT ACATGGGTAA GAAATCTTTA  
CAAAGTGTC GCTAGAC

SEQ ID NO:2000: (Length of Sequence = 329 Nucleotides)

ATGTAGCCCC CTGCTGCAAA GGTGCCATCT TTTTNTCTCT GCTCACACAG CAGCGTCTC AGGGCCTGCC TGCATGGCAG  
NNTCATCATG GGGGAAGCCA CAGCCACTGA CATCATGAAG CCCACACGGA GCATCTCGT CACCAGGTG GAGGGAAAGT  
GCATGAGCAC GTTTCGCGC CGTGGCTCG GTGAAGCTGA CGTAGCCGAA AAACCCACC ATGACGTAGG AAGGTGGTGA  
CCACATTAAG GGAGGAAGCA AATATGGAGC TCATGGTTT CACTTGACGG GCTCATCCAG GCTGTCTAG GTGGGCAGCA  
CCTGGGACT

SEQ ID NO:2001: (Length of Sequence = 308 Nucleotides)

AAGTCTGGGG TTGGTAGGC TCCAGGATT TCCCTCAGCA GGCAATTGTG CTGCCGAGG GCCGTCTGGG TGCCCCGAG  
GTCTCTCTG ATGCTCTGTA GCTGCGGTG GAACGACTCC CTCACTGACT GTGTGGCAA GCTGAGCTCT GCCCTGACCC  
ATGTGGCAIT GGCCAGGATG GGGGCCANGC CCTGTGGGAT GCTTTGCTGC CGTNTCTG AGGCACCGAC TGCTCTCTCT  
CCCAGTGTCC CCAAGTGCTT CCTCAGAGAC TCAACCTGNN TCCAGAATC ACCATCCACT AGGACCTT

SEQ ID NO:2002: (Length of Sequence = 242 Nucleotides)

AGCCAGGCCC TGGGCCCAAG CCCCTGTGCC CTCTCCACT GCCCTCTTT CCAGACAGTA AAGGCCATGG TCAGTGTGTT  
TTTCTCTGT AAACAAACCC CAGCTGTGTT AACAGAAATG CTAATAACCT ACTGGGAAAG ATGGAGGTCT AAATTACCTC  
CAGGGTTTTT CTGGGGGTTT ATCACCAGTG TGGGTCCCTT CTGATACCAC CAGGTTCACT CCAGGCAGAG TGGGGCGGAA  
GG

SEQ ID NO:2003: (Length of Sequence = 328 Nucleotides)

ATATTCTCAC TTATAAGTGG GAGCTAAATN ATGGGAACAC ATGGACGCAT AGAAGGGNAC ACTTTTACAC TNCTGGTGGG  
NGTGTAAACT AATACAACCA CTGTGAAAA CAGTGTGGCG NTTCTGTAAA GAACTAAAAG TAGATCTCCC GNTTGATCCA  
GCAATCCAC TACTGGGTAT CTACCCNAA GAAAATAAGT CATTATACAA AAAAGATACT TGCACACAG TTTATAGCAG  
CACAATTGTC AATTGCAAAA AATATGGGGC CAACCCAAAT GCCCATCAAT CAATGAGTGG ATAAAGGAAA TGTGAGATAT  
ATATATAT

SEQ ID NO:2004: (Length of Sequence = 211 Nucleotides)

AGCCTTTTTA TTATIGINIT TTTTTTTTTT TAANCGAAGG TCCCTTACTG GTCCTGCTTC CATGAGTAGC CGTGACCAGG  
GGAAAAGGGA GAGGAACAG CCGGCACAGG GAGGGGTCAT CTCACAACA TTCCATTAT ACACAGAACT AAACAGACAA  
GCACAGNGTC ACTATGCGG TTAGAAGTGG GCAGCATGGG AAGGGGGAGG A

SEQ ID NO:2005: (Length of Sequence = 241 Nucleotides)

CCGGGACACC GTGGGGAAGG GGTGCAGGTG GGGTGATGGC CAGAGGAATG ATGGGCTTTT NITCTGAGGG GTGTCCGAGA  
GGCTGGTGTA TGCACGTCTC ACGGACCCCA TGTGGATCT TTCTCCCTTT CTCCTCTCCT TTTTCTCTTC ACATCTCCCC  
CATAGCACCC TGCCCTCATG GGACCTGCCC TCCCTCAGCC GTCAGCCATC AGCCATGGCC CTCCAGTGC CTCTAGCCC  
C

SEQ ID NO:2006: (Length of Sequence = 266 Nucleotides)

TTCCCCCTAA CCTGTGAGT GGGCCTTTTA AGTAGTAAGT AGTATACACC TAGATATGGA TAGATAGCTA GGTGACCAAA  
CCTAATGGAT TAAGGCCATC CTCGCTAGG TCACTTACTA AAGATCAGGT CATATGTCAT ATCGTTCCTG TGCTTTTATG  
AACGTATTTG GGAATGGGTT CCAGATTTTT TTAAACACA TATTAAAGAT TATTTATATT ATGCTTTGTT TCCGAAAGGT  
TTTAAGGTGG ATTAAATAT AAGATT

SEQ ID NO:2007: (Length of Sequence = 419 Nucleotides)

AGAAAGAGGC TTCCTCTGTC GGAGGCAGGT GGAGCACAGG GAGGGCTCCT GGGAGGCACA GGAGTGGGGT GGGGGCCAGG  
AAGGGGGAGG TGGACAGAGC GACTTGATA AGGCTGGGCC GGGCCCAAGC CCACCTCAAG AGGGGGGCG CCTCCTCAGG  
AGGNATCAAG GTGCAATCCA GTCTTCCTTT CTCTCCCTGA AGACCTGAGT TCCAGCCTTC ACAGAGCGTC ATGCGCATTC  
TTCTTTCTGG ATGCTAACCC CAAATCCGAC ACTCAATGGT GCACCTCAGG TACCTGCCAA GNTCTINIGG GCCACATGG  
AAGGTGCAGG GTCTGGGTCC CTGGATGACG AGGTGAGGGG CAGATGGGTG ACCAGGGAAG GGCATGACCC AGAGCTNCCG  
GGACTCATGG AGGATTNGG

SEQ ID NO:2008: (Length of Sequence = 360 Nucleotides)

CTTTTCGGA GAAAATAATA CGCTCGTTCC TCTAATTAGC CCATCGGTTT CAGGTTCACT ACTCTGCTAT CTCTCCTGG  
AGTTTACACA AGCCCTTCAG AGTGTAACA CCGATGTGGA TTCAATCCCA CTCATTATTT TTTTCAATAA AAAGAGAACT  
GTTTCAACAG ACAGGTGTTG TTTCCGACAT CATCAGAGAG GAAGGTGGAT GGTCTATAC GGTAAAGCATT CTACCCCTCA

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GCTGCCAGGG ACAGATCCAT AAAANTCCAA AAAGGGAAGA GAGAAACAGC TTGAGTACAG CTGAATCATT CACAACAATA  
TTACAAGCAA TTACTTCAAT GGTAAAGTCT CCACTCTAGA

SEQ ID NO:2009: (Length of Sequence = 411 Nucleotides)

ATTACGGGCA CCTGCCACCA CGCCTGGCTA GTTTTGTAT TTTTAGTAGA GACGATGTTT CACCATGTTG ACCAGGCTGG  
TCTCGAACTC TTGACCTCAA GTGATCCACT CGCTTCGGCC TCCCAAAGTG CTGGGATTAT AGGOGTGAGC ACCGTGCCC  
AGCCTCACAG CTGCATCTTA ACCTTACCTT TGCTCTGCC TCTCAAGCTG GTACCTCCTA ATTTACATCC TAAGAGTGGA  
ACCATGTGAC AAGGACTGGA GTGCCATTGG CTGTGGACTG TTCAGGCAGG GAAGTACAAG ACCACTCTTG TATTGAGGGG  
CAACCAAAGG AGAGAATTAC GTACTTGTG AGTACAACT GCACCAAGCC CTGGAGACCC ATTACCACCG TTAACCTCA  
ATACAGCTCT G

SEQ ID NO:2010: (Length of Sequence = 311 Nucleotides)

AAGAAAGATG CCAGCTCTTT ATTACCAGGG AAGCTGTGTG CACGCGGTG GAGGGTNCCT NTGGAGCTGA CCGGGCCCTT  
ACCTTCTCCT GCTTGTGAGA GGTGAGTCTT GGTACCCAGC ACGGTGGCCT CCGGGAGGCT TTGATAGGTC AGCCTTTGCT  
GCCTCCAGC TCAGGGCTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCCC ACAGCCCGAG GAGGGAAGCA CCGACCGCCC  
TCCTCGTGGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTCCTCG TGATACAACG T

SEQ ID NO:2011: (Length of Sequence = 192 Nucleotides)

TCAGGACATT TCAGTGAGGC CACCTACAAG CAGAAAGGAG GCCCAGGGCT AGGGACAGAN TGGCCCCAGA GCCAGTCAGC  
TGCAGCAATT CTTGTGAGAA AGGGAGGGCA AGCTGCCAGA GCANTGTNGC CCAATATGAT GCCTACACGA GACAGATGTC  
CCAGTAGAG TGTGTTCACT GACCTTCTAA AC

SEQ ID NO:2012: (Length of Sequence = 367 Nucleotides)

GGATGACCTT CGAGGACGTG TGCCGGTACT TCACGGACAT CATCAAGTGC CGCGTGATCA ACACATCCCA CCTGAGCATC  
CACAAGACGT GGGAGGAGGC CCGGCTGCAT GGCGCTGGA CGCTGCATGA GGACCCGCGA CAGAACCGCG GTGGCGGCTG  
CATCAACCAC AAGGACACCT TCTTCCAGAA CCCACAGTAC ATCTTCGAAG TCAAGAAGCC AGAAGATGAA GTCTGTATCT  
GCATCCAGCA GCGGCCAAAG CGGTCTACGC GCCGGGAGGG CAAGGGTGAG AACCTGNC A TTGGCTTTGA CATCTACAAG  
GTGGAGGAGA ACCGCCAGTA CCGCATGCAC AGCCTTCAGC ACAAGGC

SEQ ID NO:2013: (Length of Sequence = 213 Nucleotides)

GATTTTATGG AAAAAAATTT CCATTTTNNI TAAGAAATAA GGAGTTTNTG TGTCGAGGGC ATGACTACGA GAGGCTGGAA  
GCTTCCAACA GAGAATGCTG AACGANTCC CCCATGCCAT CGCCATGCAG CACGCAACC AGCCCGATGA GACCATCTTC  
CAGGCAGAAG CTCAGTATTT GCAGATATAT GCTGTGACTC CCATTCCAGA GAG

SEQ ID NO:2014: (Length of Sequence = 333 Nucleotides)

GTTAAATAAA ACAGCAAATT CTAAATACA TTATGAGTAA AGAAAGATTA AAATAAGGNA ACAGTACTTA CTGTGCAACT  
TTAAATTATA CCAAGTAAAG TACACCACCT ATTCAGTGAT AACATTTTCC CTACGTTGAA AACACAAAAC CTACTTATCG  
ATATTTTGA TATTAAAAA AAGGACATTC ACTATGTAG CCTTGACAAC TCTTCCAGTA TTTTAAACCA TTCAGATGTA  
TTATGTGGGN ATATTTATTA ACATAATTIN GTTAAACACA TTTCTTTCTA CACAACTGA ATTTTAAAG TGCTATAAC  
ATTTTCAATT ACA

SEQ ID NO:2015: (Length of Sequence = 179 Nucleotides)

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NCACCACTTA TTGTCCTCAA ACATTATTGC ACTTTAACTT TCTTAATTG ACAAAGCATT CAAGAAACAT CTGCAGACTA  
GTTTAAACAG ACAAATAACA CCTGTAAGCA GACATGACTG TCCTAAATTG TTTATTAAGA AAGTTAAAGN GCAATAATGT  
TTGAAGACAA TAAGTGGTG

SEQ ID NO:2016: (Length of Sequence = 293 Nucleotides)

TTTTCCTCC CCAGAGATGC TTTATTACAT GGTTCATCA GTCATCAATG ATGGGTCCCT ATGCCCATGC GAGGAGACAG  
GAACATCTGT GTGGTACATG GCACGTGTC CCTCTCAGCT ACGCAGTCAG ATGGGGGCAG GGGGATGAAT GGGTGTCTGG  
CTTCCCTGCT GTTGGGCAGG CTCTGAGATC TCAGCAGACA GAAATGAAAG CCTGGCAAAT AGGGAGGCAG GAATGTTCAA  
GCATCGGTGA CCTCCATGTT CTGCAGCCTG TTTTCTAGGG TGACGTCTCT TTG

SEQ ID NO:2017: (Length of Sequence = 504 Nucleotides)

CGGTGCTGG CCGCGCTGTG GCGCGCTGC TMTGCGNCCC CAGNCTCCTC GTCCGCTGG ATATCTGTTC CAAAAACCCC  
TGCCACAACG GTGGTTTATG CGAGGAGATT TCCCAAGAAG TGCGAGGAGA TGTCTTCCCC TCGTACACCT GCAOGTGCCT  
TAAGGGCTAC GCGGGCAACC ACTGTGAGAC GAAATGTGTC GAGCCACTGG GCATGGAGAA TGGGAACATT GCCAACTCAC  
AGATCGCGC CTCATCTGTG CGTGTGACCT TCTTNGGNTT GCAGCATTGG GTCCCGGAGC TGGCCCGCCT GAACCGCGCA  
GGCATGGTCA ATGCTGGACA ACCAGCATCA ATGACGATAA CCCCTGGTTC CAGGTGAAAT TNCINCGGAG GGATNTGGGT  
AACANNINTT GTTACGAAGG GTGCCANCOG TTTGGCCAGT ATTGGTACCT AAAGGCTTTA AAGGTGGCCT ANAGCTTAAAT  
TGENAGGAIN CENITINICC ATGT

SEQ ID NO:2018: (Length of Sequence = 354 Nucleotides)

AGANCAGACC CACAGGCATG CAGAAAGGTA GGGCAGTATG TTTAANTCCA GACTTGGCAC ATGGCTAGGG ATACTGCTCA  
CTAGCTGTGG AGGTCTCAG GAGTGGAGAG AATGAGTAGG AGGGCAGAAG CTTCCATTTT TTTCTTCTCT AAGACCCCTGT  
TATTGTINTT ATTTCTGCC TTTCCGAGTC CTGCAGTGGG CTGCCCTGTA CCTGAACTT CATGAGCCTC TAAGGGAAG  
GAGGAACAAT TAGGACGTGG CAATGAGACC TGGCAGGGCA GAGTACAAGC CCAGCACCCA GTGTCCACG CTTACTGGGT  
CCTTANCTG GGCCAAACAG GGAGGGCTGA TACC

SEQ ID NO:2019: (Length of Sequence = 295 Nucleotides)

GACACAACCT TTTGAACAT TGCTGCTGTT TTCATTTTAA AAAGGAACCT TTAATACTAA AATTATAGGA AGAACAATAAT  
ATCTGACGTC ACGTAAATTC AGATTGAAG GAAATTTACT TTTTINCCTT ATTTGINCTT ATTTTCTCTC ATTTTGTAA  
GAACCAGCGA ACACTTTGAA GAAAGCCAAA AGTTTACATC TGGAGCTGGA GGGTTCGTG ACTGCACACC AGGCACTCTG  
CCAGCCCTAC TTTGCTGT AGTCTGCAG GTCACITGCC AGAGGTGGTA CTTTC

SEQ ID NO:2020: (Length of Sequence = 217 Nucleotides)

ATTGGAACCT AAGTTTACA AGGAAAGTGG TCACTTTAGT TCACCATTIT CCTGTGAAA CTTAAGTTC AATGGGAGAA  
TGACAGTAA CAGACAATA TTATAATANG TCCATGGAAG ATTTTGGTGT ATGINAGATT TNCAAATCTG TAGAGAAACN  
TNGGCTCAT CAATAAAAAT TTTGAAACCA TTGATTAAATG TCCTAATAAC TATATGT

SEQ ID NO:2021: (Length of Sequence = 380 Nucleotides)

TTTTTCTTA AAACAACAGC AACGTGATCT TGGCTGCTG TCATGTGTTG AAGTCCATGG TTGGTCTTG TGAAGTCTGA  
GGTTTAAACAG TTGTGTGTC TGGNGGATT TTCTTACAGC GAAGACTTGA GTTCCTCCAA GTCCAGAAC CCCAAGAATG  
GGCAAGAAG ATCAGGTGAG CCACTCCCTG GAGACACAGC CTTCTGGCTG GGGACTGACT TGGCCATGTT CTCAGCTGAG

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CCACGCGGCT NGTAGTGCAG CCTTCTGTGA CCCGCTNTG GTAAGTCCAG CCTTCCAGG GCTGCTGAGG GCTGCCCTCTT  
GACAGTGCAG TCTTATCGAG ACCCAACGGC TCAATCTGCT CATCCNTAAA GTGGGGGATA

SEQ ID NO:2022: (Length of Sequence = 223 Nucleotides)

GGTCACACAG CTAGTTGGTA GAGGAGCTCT TCCATAAGAT AGCAAGGCCA CATCACCTGC AGGGCAGTGC CTGCNCTGGG  
AGGTGGCACA ATGTGCCAAG TGATGACGAT GACAATAACT ATGAAAGGAT TTTATATTTG CACAGCATTT GGTGCTCTGA  
TCTTCGATGA GGAAGAGCTC CTGCCGATGT CTGCTGAATT GTGCAGTAAA ATATTCAGGA TGG

SEQ ID NO:2023: (Length of Sequence = 294 Nucleotides)

TATTCCTTAAG TTTGCATTTT ACAAACCAC AAGGGAGAAG TCCTTGAAGG GGAGACAGGG GTAGGGGATT AGGGAGTGGG  
GGATGGTAAA GAGGGGAAGA GGAAGACCCA GAAACGAAGT CCCCTCCAAC CCCATCTCGG GGACCAAGCA GAGACTAGGC  
CTCAGGCTAG CCCAGCAGG TTCTGTGTG CTGTTGTGAC AGAGCTAGGC CAAAAGACCT CAGGGGAAGG GCCATGGCCC  
TCTAGAGACT GCGCCATTT GAGGGACAGC CACAGGCCAA TGTTTCTGT GCCC

SEQ ID NO:2024: (Length of Sequence = 234 Nucleotides)

ATTTGTGCG GGTGCAAAC GTCTTCTGCT CTGTAGCTGG GAGCTTCACC AGGCTTCGGT GTAGCGGACG TCCACTTCCT  
TCAAATTGGG AAGCTTGGCC TTCAGATCTT CGTAGGTGTC AGCTGAGAGC TTNGTGCTGT TCATGTTTAA ACTGCAGAGA  
CTCTTCATGG AGCTCAGGGC CAGCAGGCCA CGTCTGTAA CCGGGGTCTC GCACAGGTTT AGCACCTGGA GCAT

SEQ ID NO:2025: (Length of Sequence = 327 Nucleotides)

AGGAACAAAT GTTAAAGGT AAGATAATTT CCTGCAAAA GGACACAGAA GGCAGTCTTA AGAAGATGAA TGGATGAGAG  
AAGGGAGAGA ATAAATGCA ATAACGAGCC AGCATTTTACT ATGTATTTNN TCCTCACCTG TCTCTCCATA TTTAGGTCAC  
TTACCAGTTT CTGTGCCCTT TTGGAGCTTT TMTGAGGGC TTCATTCTCA CCTGTATTT CTTAGCCCT AAATTGACAC  
TCTCTCCAAA AATCCATCC ATGTCTGTG GACCNAGATG TTCTATGTAA TTCAGAAGCA GAACCTCTGG CTAAAGGGCT  
AGTGTTG

SEQ ID NO:2026: (Length of Sequence = 328 Nucleotides)

TCAGTATAAA TTTAAAAGAA ACAGCTTAAT GAAATACAAG TCAGTTTATT TGATATTCAG CCTACAGCTT TCCAAAGCAG  
CAGTGAACA TGTTGTTGAG TTTATACCAT TCAITCATTC ATTTATTTT NCTTCTTTC TTTCAGAAA TACTGGGTGT  
TTGATATTTG TTTCACTGTG CTAGTTTCTG GGAATGTGTA AGGAAGAGGC TGGCTGTGTG GATGAGAGCA ACTTGCTTTT  
TACAATAATT ATTTGTTATT GTAAATTAAC AATTGTCTCT TCTGGTATTA TATGGAAGTA TTTGATCCNG TTGATGGCAC  
TGCTTTG

SEQ ID NO:2027: (Length of Sequence = 307 Nucleotides)

AAGAAAGATG CCAGCTCTTT ATTACCAGGG AAGCTGTGTG CACGCGCGTG GAGGGTNCN TTGGAGCTGA CCGGGCCCTT  
ACCTTCTCCT GCTTGTGAGA GGAGAGTCT GGTACCCAGC ACGGTGGCT CCGGGAGGCT TTGATAGGTC AGCCTTTGCT  
GCCTCCAGC TCAGGGCTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCC ACAGCCGAG GAGGGAAGCA CCGACCGNCC  
TCCTCGTGGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTCTCTC GTGATAC

SEQ ID NO:2028: (Length of Sequence = 272 Nucleotides)

ATCCATTCTT GCAITTAACCT AGAGTTAAAA AGGAATATTG TTTATTGTTT GGCTCTCCCC ACTAGAAGTT TCACAGGNGC  
ACAGATCATA TCTACCATTT GAACAGCTCT CTGCCGTATG GCTAATACAT TINTTGGCAT ATAGTAGGTA GGTGCTCAAT

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AAATTNTITA CAGGAATAAA TGAGATAGGA TTTTCAAGGG TATTTNCTAT TAGGATTTAA TAAAACAAAG TGATCTTTAG  
AGAAACAAAT CTCCCCATCA ACATGCTATA CT

SEQ ID NO:2029: (Length of Sequence = 261 Nucleotides)

ATTTCIACIA AAANTACAAA AAATTAGCCA GCGTGGTGG TTGTGCACCT ATAATCCCAA CTACTCGGGA GGCTGAAGCA  
GGACAATTGC TTGAACCCAG GAGGTGGAGG CTGCAGTGGG CTGAGATGCG ACCATTGCAC TCCACCTTGG GCAACAAGAG  
GGAAACTCCG TCTCAAAAAA ACAAAACAAA ACAAAACAAA AACAAAAGTC AAGTGCTTAC ATTTTGCCAG AAGCCACAAA  
TGAAGACTGT GCCTTATAGG C

SEQ ID NO:2030: (Length of Sequence = 384 Nucleotides)

NNCCNNGGAC CAACAGCAGC CAGAGCAGTT AGCCAGTTAG TCCCCAGGCC TGTTGGCACAG GCGTTTCTGA CCTGCTGGGC  
CGAGAATGGG TAAGTTGTCT GGAGTCAGGT GGGCCCACT AGGACAGGGT CACAAAGCCT GGGTTTGTIT CTGGGTACTT  
TGCGCCTCTG GGGTGCTAGA GGTGGGGCAT GGTGGCTGGA AGTAAACTG CCAACTCTGG CCCTCAGAAC TCTCAGGTAT  
AGAAGCCCAA GATGTCTAAT ACCCTNTCCC AGTGGCCGAG AGCTGCCCTG TGTCAGGTAG AGAGGACACT GTACCTGGGT  
GAATGATCAG ACCCTGGTAG CTAAGAAGGN ACTTGTCCCT TTAGTCAGTT TGCAGANCCC CTTT

SEQ ID NO:2031: (Length of Sequence = 261 Nucleotides)

ATCAGAGAGG AGAAGCCACT GTTGCCAGGA CAGACGCGTG AGGCGGCCAA GGAGGCTGAG TTAGCTGCCC GANTCCTCCT  
GGACCAGGGA CAGACTCACT CTGTGGAGAC ACCATACGGC TCNTTCACIT TCACTGTCTA TGGCACCCCC AAACCCAAAC  
GCCAGCGAT CTTACCTAC CACGATGTGG GACTCAACTA TAAATCTTGC TTCCAGCCAC TGTTTCAGTT CGAGGACATG  
CAGGAATCA TTCAGAACCT T

SEQ ID NO:2032: (Length of Sequence = 344 Nucleotides)

CCCCTGCAGG GCGTCTGGTT CTTCGGGGAA AACGCTCACC CACCCCTGGT AAAGGGCCTG CAGATCGAGC ATCCCGGGCC  
CCACCTCGAC CACGAGCAC CACAAGCCAG GTCACCCAG CAGAGGAAAA GGATGGACAC AGCCCCATGT CCAAAGGCCT  
AGTCAATGGA CTCAGGCAG GACCAATGGC CTTGAGTTCC AAGGGCAGCT CTGGTGCCCC TGTATATGTG GNTCTCGCCT  
ACATCCCGAA TCATTGCAGT GGCAAGACTG CTGACCTTGA CTTCTTCCGT CGAGTGCGTG CATCTACTA TGTTGTCAGT  
GGGAATGACC CTGCCAATGG CGAG

SEQ ID NO:2033: (Length of Sequence = 373 Nucleotides)

GGAAGAAAGA AAGAAAGAAA GAAAGAAAGA AAGAAAATGG CCCCATAGTG CTTAAGTCCT CAGACATGTG TCCTGGTGCT  
GGGGACAGGG CTCTGACAT TCTCTCAGGT CAGTATTTC AGGTCATCCA CCTTCGACTT CAACACATGT GACCAGAAAC  
CTTCCCAAGG CAGCCATCCA CTTTGCTGTC CCTCCGACGG CCATGGCTGA CCCTGCTGC TGCTGTGTAT CCTCGGTGAC  
ATCTGGCCTT GGCAGCCTAT GGATTNTGTC CATTCTCCTG GCATGAAATC ACTCCTTCTT GTTGTMTTAA TTTGCATTTC  
TTCAGTTACC AGCGCAGTTC AGCATCTTTT CATACTTTA CTGACCAATT CTA

SEQ ID NO:2034: (Length of Sequence = 289 Nucleotides)

CCACCAAAGA ACATCACGCT GTCTTATGTC AAATGCTCGA CAATACCTCT CAGTAGGACG TTGTTGCAAG GCTAGCTAAT  
TTTAAATCTG GTATGAGTAA TACAGTCAA CCTAGTATG ATGCGAGAAA GTCGTGCTA ACGCATGGTG AGAGGATGTG  
ACGTCACAGC ATGAGCAGTC CCTGGTTGTC CCATTGTCAG ATAAACGTAG TNNAGTAGNT CCAAGTTTCT ATTCCAGGTC  
TCTGAACCCC AAAGCCAGGC CTTTCACTTT TGCTGGGTGG CCTGGAAGC

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SEQ ID NO:2035: (Length of Sequence = 290 Nucleotides)

CTTTTCCCTTC ATCTGAACAC AGAAGGAGCC ACGGTCTGGA AAGTNTGCCT GTCCCTTCCCG GGAGTGGGGA GGCCGGTGTG  
AGTTTGTGATC TTCCAGCTCA GGCAGACACC TTACACAGTG CAAACAAGAG CCGTGTCAAG ATGAGAGGGA AGCGTAGACC  
GCAGACCCGT GCAGCTAGGC GCGTGGCTGC TCAGGAGTCC AGCGAGGCTG AGGACATGAG CGTCCCCAGA GGACCCATTT  
GCACANTGGG CTGATGGCGC CATTTCCTCCA AATNGCCATC GGCACCAGCT

SEQ ID NO:2036: (Length of Sequence = 241 Nucleotides)

TTATTTTATA TAAAAAGTGT TTCTGTGATT CTCCAGAGCC CAGGAGTCAG TNCCTGGTGGT TGGAGGGACC TGCCCCCACT  
GGTTCATTTA ACCCTCTGTC TCGGTGCCCT NAGAACCTCA GCCAGAAAGG CAAGGAGGAA ATCAGAGCAN GAGCCTCATA  
CTCTTGGTGA TCTATTCACT CTNIGACCTC AGGGGTGACA TATAAGGTCA GTGTTTCTCG TCCCCGNCGG ATCTGCACTG  
C

SEQ ID NO:2037: (Length of Sequence = 270 Nucleotides)

CTATTATTTT GCATTTTGG TAGAAGGGGT GGTCTCACA TGTCGCCAG GCCGTCTCG AACTCCTGAG CTCAAGCGGT  
CCACCTGCCT CAGCCTCCCA AAGTGTGCG ATTACAGGCT TGAGCCACTG CACCCTGCC AACCTTGACT ACTTCTAATA  
GGGATGAGTC GAGTAGCAGT TNGGGGCGTC CTGTGCGGCT GGGTCTGCT GAGGCTCCCC TCGGCCCGT CCATGCGCTG  
TTGTGCATCT GGCCCTGAGT GCCTTGCCCC

SEQ ID NO:2038: (Length of Sequence = 151 Nucleotides)

ATTTTAAAT GAGCATTAG GGAATGCAGC ATTTAAATCA GAACTCTGCC AATGCTTTTN TCTAGAGGCG TGTGCCATT  
TTTTTITAT ATGAAATNC TGTCCCAAGA AAGCAGGAT TACATCTTT TTTTTTTTT TAGCAGTTTG G

SEQ ID NO:2039: (Length of Sequence = 166 Nucleotides)

TTTGTCTGTT ACAACCTCCG TATGACCCA CGCCACCCGC TGTTCAAGTC CCGTCGGCT CCTGCACAGN CCACAGCTG  
CGCCCGAAG GCCCTGCTG TGGAGAAGCC GGACCCATCC CCGAGGTCCC CAGCGAGGAC ACANACTCCA CGAGAGCAGC  
CCCTCC

SEQ ID NO:2040: (Length of Sequence = 362 Nucleotides)

GAAGTACGGT TAAAATTAGA TTTGACCATA TGGAGATCT TTTACCAGTT GGTCTCCAAG AATGTCTTCC TTATTATGTT  
ATTGTCACT TTTGAGCGTG TGTGTGGTG GGGTGGTTTC TGCTTATAT TCCTTAACTA CATGTATAT TTTGTAAAG  
AATTGGGAAT TCATTTTAAT GCTTTTAAAC ATCTTCACCTG GGAACGGAA TAAAGTTATT CTTGACTCTG TACCTGAGC  
CATTGTCAAA GTGAGGGGT ACATTTTAGG TATCTAAAAA TTACTCTTTA ACTTTCACAT TCCCTGGGT AGGAAGCTGC  
TGTTCAAGAG AAATTTTCN GGTCTCTG GCAATTGGCT TA

SEQ ID NO:2041: (Length of Sequence = 360 Nucleotides)

CCTAATTGTA AGTATGAAG TCGAGGAGGT GGTGATAAT GGGCCAAGTG AGGATGCAAT GCACCAGGTG TATAAGTAGC  
TGCACTACT CCAGCTTCAA TTCCAGTTC CCAGGCAGAC CTCTCTGGAG CCTGTGAGG ATGTNAGGAC ATAGTCTGAG  
GCACATGAAT ATGATGCCA TGACCATAGT TTGGGTGCAT CCTATGTGA TGGGGTGGG GCGTTTCATG TGCCCGNTT  
GGATGCTGCA TCATCTCTCT CCTTGAACCT TCCATCTCT GCATCACTTC ATGAGGATGC AGTCTCTGTA CTGGAGGTG  
TGTGGCTGGA ATATGGTGG AAATTGGCTG GTGTGTAGGA

SEQ ID NO:2042: (Length of Sequence = 403 Nucleotides)

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GTATTTGTTG TTTGAGATGG AGTTTCACTT TTMTTGCCCA GGCTGGAGTG CAGTAGCATG ATCTCAGCTC ACTGCAACCT  
CTGCCCTCCCG GGCCCAAGCG ATTCTCCTCC CTCAGCCTCC TGAATAGCTG GGAATACAGG TGCCCAACAG CACACCGGCG  
CAATTGTTGT ATTTCTAGTA GAGATGGGGC TTCTTCACGT TGGCCAGGCT GGTCTCGAAC TCCTGACCCC AGGCGATTCC  
CCCACCTCAG CCTCCAAAAG CGCTAGGACC ACAGGCGTGA ACCACTGCGC CCAGTCGGAA GTAATAGTTA TTAACCAATG  
TGATGGCCCG GTGTAGGGAC CCTCGCCTGT AATCCAGCA CTTTGGGAGG CCAAGGAGGG AGGACCGCCC GNGACCAAGA  
GTT

SEQ ID NO:2043: (Length of Sequence = 331 Nucleotides)

CCCCGTACGG TGTGGCTCTC AGCAGCCTCA CCACAGGCAC CGCAGCTTTC CCGCTGTGCA CCCAGCTGGG TGTGTGAATC  
CCCCTGGACT GCGCCCAAGC CACCTTCATC TCCCATGACA AGATGGTCAT CTCCTCAAG GGCAGTCAGA TCTACATGCT  
GACCTTCATC ACCGATGGCA TCGTAGGTT CCGAGTGTTC CACTTTTGAC AAGGCGGCCA CCAGCGTCTT CACCACCAGC  
ATGGTCACCA TGGAGCCTGG GTACCTGTTC CTGAGTCTT GCCTGGGCAA NTCTCTCTC CTCAAGTACA CCGAGAAGCT  
TCAGGAGCCC C

SEQ ID NO:2044: (Length of Sequence = 244 Nucleotides)

ATGGAAGATA CTAAGAGCCT CAGTCTGGAA GCATTTACCT AGGAAGCGCA TATAGACAGA GAAGATCAAG GACTGAGGCC  
TGAGACAGTC AGCACTTAA GGGTGAGGGG AGAAGTGCCA AGGAGACAAG GTGAGAACAG CAGAAGAGTA GCCAAGGCCC  
AGGATGTTGC CACAGAAGCC AGGAGAGGTG AGCATGAAA CAGAGGAGGA CCAGCTGCTG GGACAGAAGA GCCATATGGA  
AGAG

SEQ ID NO:2045: (Length of Sequence = 333 Nucleotides)

GTCAGGGATT TGTCCATTCT GCTCTTGCC TCTCTGAGG CTCATAATG GGAGACCAA TCAAAAATGT CCCATGTCAC  
TTGAGTGGGT AACTGCCTA CAGAACCTTG AGGTGACTC CTGCTTCAGT TCTCAGCTGT TTACCACAGC CCTCCAGGGT  
CCAAAGATTG AGGAGCTTTC TCTTCTCTG GAGGAACGT CTCANATTTA GCTTGTGTGT GTTTTGAGCA GAGGCTCCAC  
AGCGGTGGCT CTTGAGGAAT CCTCACCAGT TTGINTCTT CCCTCTGACA AGCAGCACCT GAGCAGATGC TGAGGCAGTT  
CATTAAACCA GGG

SEQ ID NO:2046: (Length of Sequence = 274 Nucleotides)

GCAGGTTTAT GTTTTATTT ATGTATTINA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTCAC AATATACITG  
CAGAACTGTG CTGGNGCAT CATGGGAGCA GAGAACTGT CAGTGAATA GTTGTGAAG AAAGGAGTAA AATCTCCCC  
AAACCCTAAA GGCATCCTTT TCGTAGTGTG TGTCCCATAG GTATGGCTGC TGAGCACCAG GGCTGCTCAC CATGCTCCCA  
AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTT

SEQ ID NO:2047: (Length of Sequence = 327 Nucleotides)

GGCCGCGATG TGCTTTTNTC CTGINTCGC TGCCCGGGAT GCGGAATCTT GAGCCTGGT GTCCGGTTAC AGAGTTGTCC  
TGGTGACGGG ATGCGGAGGT TTCTCCTTT TTGTGTGGG GCGGCTGGT GGCAGGGGCA GCTGGTGGCA GGGTTGCCA  
CGTAATCTC CGAGTCTCTA AGGGCACCGT CTTCCTGGA TCCCTCTGC GCCTCTCCA TAAAGGCAGA CCCGCGGGCG  
CGGCGCGCA ACCTGAAATC AGAGCAGGCG TCCGTGGCG TCAGGAACCT TGCTGAGCTT CCGGATCTT TCATTGTTC  
TTCATT

SEQ ID NO:2048: (Length of Sequence = 241 Nucleotides)

436

ACTTTGTGTG TCTGATTTTA GGACTCTGGC TGGCCATGTG CTINNGGTTG CCTCTCCTGC APTTNCCTT GGATTTCAC  
TGCATCGTTT GGAGATACAA AGCGAGCAGT TCTTGGTCAG AACCTCCTC TGCTTTTCAT TGTGTTTGAT AATGGTTACT  
GGGTCCCTTCT CTCAAGGGTA GCAAGGCCAA GCTGATGGCT GCTTGTITAG GAGGCCATCA GTTCCCTCCT GTGGAGAAGG  
G

SEQ ID NO:2049: (Length of Sequence = 269 Nucleotides)

ATTTTITAGTA GAGACAGGGT TTCACCATGT TGGCCAGGCT GGTCTCAAAC TCCTGGCCTC AAGTGAGCCA CCTGCTTTGG  
CCTCCCAAAG TGTGAGATT ACAGGTGAGA TATCTATAT TCATGGATTG AAAGACTCAA TATGTITAAG ATGTCAGTNC  
TTTCTAAAGN GATTTTITAG ATGCAACACA ATTCCAATCA AAATCCCAGG NTTTTTTTGT AGCTATCAAT TGATAGATAT  
CAACAGCCAG CTGATTCTCA AATTACGT

SEQ ID NO:2050: (Length of Sequence = 170 Nucleotides)

TTTTGAAGAG AACGTCAGTT TAATAAGCT AAATGGGGAG AATTGAAGTT TGCATTTGAC ATGGTATTAA ACAAACCAA  
AGGGCTGAAA CTCATGTTTA GACAACACAG GTCAGTAGTC ACTAGGCAA GAAACAGTC CACAGCAGGT GGCACAAATA  
ATTCCTATAC

SEQ ID NO:2051: (Length of Sequence = 262 Nucleotides)

CAGGGCACAC GCAGGACCAC TGTGGATTAG AAACCCACAC GTGTCACCTG CAACATTCCT CCCACATCCA CATCCACGAC  
GGAGCCAAAT CTCATTGTG ACCCTCAGTC ACCACCCAC AAGATGGAGC CGCTGGTTAC GACATGGATG ACAGGTGTCA  
TGCACAGGGA GAGAATTTNT CCCCGGATAC CCTGAGGAC CAAGGACCAC CCCAGGCTA GGGTGGGAGG ATTGAGAGCA  
GTGCAAGAAA CCAAGGAGGA TN

SEQ ID NO:2052: (Length of Sequence = 325 Nucleotides)

GAAAAAAGAT TGTITTTGTTA GAAAAAGCAA AAACAAAAA GCATTAGAAA GTGGGAGCCA CTGCACAGCA GTAGCCTAGA  
GACTGGCTGC GATATGGTAG CTCTGCCTTG ATATCATCTT CGTGTCTTCA GGCATAGAGA AATGGCAGAG GAGCAGTAAG  
ACCCACAGG AGATGGCCAG AGGNTCCACC ATCAGCCTTC TGGGGACTGA GGAGGTGATC TTAGTGGAAT TATTTTATAC  
TCACCTCCCC CGGGTTITAG TCCTTCCTCC AAACACTTAG TTCCAGGCG CAGGAGACCT GTTACTAGCA CTGTATGTTT  
CTTTG

SEQ ID NO:2053: (Length of Sequence = 222 Nucleotides)

TTTCAAAATT AGTCTTAAGA GTATAAGCTG TTTTINAGGG CTGTAGCCAG ACTACATAAT GAGCGGTGAA AGCGGCTGCC  
TTCCCCCTTC CTGACACCAG CAAGGGGGAG GCACCATCAC CGGCCCTGCC CCATCATGCA TCCAATGATT ACTAGCACTA  
GAGCCAACG GCAAAGNCC CCGCGCGCTT GCTCGTGTIT AATCCAGGT AAGCTATACA CG

SEQ ID NO:2054: (Length of Sequence = 341 Nucleotides)

GTAAATTAG AATATGGCCC CAGAGTTTGT TTTATCTGGG GTCTGAGCAT AGATTTTATA TTCTCTGTTG CGTTTTTTAA  
ATCTAACTTT CTGTCTCAA TGGAGAGAGA ACAGGGAGGA TACAGAAGTA TTGCAGCCA GATCCCCTAT CAGGGGGACA  
GCTGGTGGC AAAGCAGCCA CCCACAGCC TTGTGGCTAG AGTACAGTGG GGTGGACCCT CCAGCCCCAA TAGCCCTAGT  
ACCCAGCTGG CAGGGTTGCC CACCCCTGCT GTCCACCTGC TCCATCCTCT AGGGGTCCA CAGGCCCTG ACCGCACAGG  
GAGGCTGGG CCAGCCTGGT C

SEQ ID NO:2055: (Length of Sequence = 258 Nucleotides)

437

CTGCCTCAGC CTCCCAAGTA GCTGGCATT A CAGGCGCCCA CCACCACACC TGGCTAATTT TTGTATTTTT AGTAGAGACG  
AGGTTTCACT ATGTTGGCCA GGCTGGTCTT GAATTTCTGA CCTGTGATC CGCCTGCCTC GGCTCCCAA AGTGTGGGG  
ATTACAGGCG TGAGCACCAC GCGCGCCAA CTGTCTTTTC TCTAATGGCT GGCGATGTTA ATTTTTTCAC TGGCTTATTT  
ACCGTCTCCT TCTGTGGA

SEQ ID NO:2056: (Length of Sequence = 292 Nucleotides)

CTCTTGACTC CGAAGGCTGG TGACAGACAC ATAAGGCAGC TCAAACCTCTT GCAACTTCCG TACAAAAGAA AAGGCTCCAT  
CCTCTTTTTT TCGAACTAAG AATAGACTAA AGTATCCAAT CAAGTCATCT GGAAGATCCA GCTTTGCAGC TACAGCCTCC  
AGGACATCCT CAGTCTGATC TGAAGTTAGC ACGTTGACCA GAACCTTCTG CCGTTGCTG AGCAGCACTT CCAAGGACAC  
TTCTCTGTG GGGACCTGCT GTGTCTCTG TTGTGCCCGA CGCAGGAAC TG

SEQ ID NO:2057: (Length of Sequence = 293 Nucleotides)

CCAAAAA ACT TGGTGCCTG AAGGTGGGT TTTGATCATG GCCAGGCTTC AAATTTAGGT CAGGCTCTGG TGGTACATCC  
TTATATGCTT GGTGCTCAGC ACAGGTCAAG ACACACAATA GACCTCAAT AAATATTTGC TGAATTTGAA CAATTCCTGT  
AAAAATCTCA TTAAGAGACA TCAGCTTGGG ACACAGTTC TCTCTTACTG TTCTTCTCC CAGAAGCTCC TGGATGAGC  
AGGTCTGGCG GCAGGGGGCA CACAGGGCTG CTGCTCAAAT CGGAGAATGG CAC

SEQ ID NO:2058: (Length of Sequence = 172 Nucleotides)

CTTCTACAGT CAAGGAGCTC AAGCTCGCG GCGACCCCTG CTCTGCCTC CCACATTAAT GGCGGCATCC TGGAGGATG  
ATATAGACCG GCGGCCCATC CGGAGAGTGC GCTCCAAGAG CGACANGCG TACCTCGCAG AGGCCAGGTT CTCCTTTAAC  
CTGGGGCAG CT

SEQ ID NO:2059: (Length of Sequence = 245 Nucleotides)

GCAAGANGGC CGAGGGGGCC CAGAACCAGG GCAAGAAGGC CGAGGGTGCT CAGAACCAGG GCAAAAAAGT AGAAGGGGCC  
CAGAACCAGG GCAAGANGGC TNAGGGGGCC CAGAACCAGG GCAAGANGGC CGAGGGGTCT CAGAACCAGG GCAAAAAGGC  
CGNGGGAGCC CAGAACCAGG GCCAAAAGG AGAGGGAGCC CAGANTCAGG GTAAAANGAC AGAAGGGGCT CAGGGCAAAA  
AGGCA

SEQ ID NO:2060: (Length of Sequence = 318 Nucleotides)

ATGCCCTGTT AAGGAGCTTG GGCTTGATCC TCTAGGCAGG GAGCGTTGG AGGATTTAAG CCAGGGAGTG CTGCGGTTGG  
TCACACTCGC CATTATGTA GATCGTTTG GCAGCCAGG GAAGGATGGA TTTNAGGGG ATGAGATTAG AAAGCTGGGA  
TATGAGTAG GAGGCTGAAA GATGGTTGAT AAAAAATATC GTTGGGCAGC CGAGATAACT GACTTCAAGG ACATATACTG  
GACTTATAGC AGAGCCTGTT GAGTCTTGCT TTTGCACACA GTTCAAATAA TCACTTAGTC ATGTGGTTTA TCTTGCCA

SEQ ID NO:2061: (Length of Sequence = 331 Nucleotides)

AAAAATAAAA ATCTATAAAC TACGGATCAT AAGCAACTCC TGTTCCTG GGTTCACCA CATCTCCAG AAAGTGAAT  
TTTGCTCATA AAAATTACAT AGAATGTAAA CTAATTCATT TTTTAAAGTA AATGCAAAAC TAAGGGTTAC ACAAGCACTG  
AGCATCAACA CTGACAGAA ATTAATTCTG AAGCCCAITA ACTTTGACAA ACGTTTATTC ATCTTTGCCT TCTTGAAGCG  
TGAGACTATC CCAGTTTAC AGGAAAAGCT TAAACAGAAA AAGTTAAATA ATAATCTCAA GGTAGNAAA CTAAGACATA  
ATTTCTAGCT C

SEQ ID NO:2062: (Length of Sequence = 316 Nucleotides)

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CTAAATCAAA CCACATAATT GGACATAAAA GAATCTTCAG CAAATACAAA AGAACCAAAA TCATAACAAA CACACTCTAG  
GGCCACTGCA CAATAAAAAT ACAAGTCAAG ACTAAGAAGA TCACTCAAAA CAATGCAATT ACATGGAAAT TAAGCAACAT  
ACTCTCAAAA TGACTTTTGG GTAAATAATA AAATTAAGGC AGAAATAAAG AAGCTCTTTG AAACATAATGA GAAGAAAGAT  
ACAACGTATC AGAAACTCTG GGGTACAGCT AAGGCAGTGA TAAGAGGAAA ATTCTTAGCA CTAATGTCTC ACATTG

SEQ ID NO:2063: (Length of Sequence = 312 Nucleotides)

ATCCATGGCT TTAGCAAGAT CCCAGTGTG GAACTCTCT AGCAACTTGT NITCATCCAG TGATACTGGT TCTNIGGGGG  
GCACTTACAG GCAGAAGTCC ATGCCCGAAG TGTGGAGTGG AGCCGTAGAT CCCCAGCCTC CACTGACAGG CAGAACACCC  
AGTCAGATAT TGGTGGCAGC GGAAATCCA CGCTAGCTG GCAAAGAAGT GAGGATAGCA TGTCTGACCA GATGGCTTAC  
AGTTATAGAG GACCTCAGGA TTTCAATTCT TTTGTCTCTG AGCAGCATGA ATATACAGAG CCAACATGCC AT

SEQ ID NO:2064: (Length of Sequence = 294 Nucleotides)

TACCTAAAGA ATCCTCAGAT GGGAGACCCA GCCAGTTTGG NTCACAAAT AGCAGAAGTC AGCCAAAATA TAGAGAACT  
GCGAGTAGAG ACCCAGAAAT TTGAGGCCTG GCTGGCTGAG GTTGAAGGCC GGCTCCAGC ACGCAGCGAG CAGGCGCGCC  
GGCAGAGCGG ACTGTAGAC AGCCAGAACC CACCCACAGT CAACAACATC GNCAGGACC GTGAGAGCCC AGATGGCAGT  
TACACAGAGG AGCAGAGTCA GGAGAGTINAG ATGAAGGTGC TGGCCACGGA TTTT

SEQ ID NO:2065: (Length of Sequence = 331 Nucleotides)

GAGCTGAGTT TCACCGTGT GCCCAGGCTG GTCTCGAAT CCCGTCTCA AGTGATCCTC CTACCTCAGC CTCCCAAAGC  
ACTGGGATTA CAGGTGTAAA TCACTGTGCC CAACCTGCTC AAACCTTTGG AGAGAAGCAA GTCTTCTAGC TGAACGTGAT  
AATGGCCTCA AAAGCAGTGT TGACAGCAGA TAATCTTCAC ACAGACAAAT GTCTACAGTT TCTAAATAAG CCAACTGTGC  
ATATGGCCTA CAGGCTCTTC AGCATAACCT ACCCAAAGCT CAGGTTCCT GAAGGCCAGG ACAGTACCTC GGGCCTTCAA  
GCAGCATTTG G

SEQ ID NO:2066: (Length of Sequence = 321 Nucleotides)

GTCTTGANCT CTTGACCTCA GGTGATCCAC CANCTCGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAG CAACCGCACC  
TGGCCTTGAA CCCTTTGAAG TATTGATGCA AAAACAAGTG GTGAGCTATG GCCAAATTCG CAATTCAAAA AGATCCAAGA  
AAGCAAGTTG AACATCTGA TTGGAGATGG GACACACCCA AACGTGTGTC TTGAGGTGGC TGCAAAGTCC TCCGGTCTGA  
GCCAGTNTAA GCAGGTTTTA CCCCAGCCCA TGATTTAGAG AGATGTTNAG TGCAGATCCT GAGCTCAGCA GAGAGCAACA  
T

SEQ ID NO:2067: (Length of Sequence = 335 Nucleotides)

CTGGCTCTGT GGCTCAGGCT GGAATGCAGT GGGCCGAGGT TGGCTCACTG CAACCTCCAC CTCTGATCT CAAGNCGTCC  
TCCCACCTCA GCCTCTCAAG TAGCTGGAAC TACAGTGGAA CTACAGGTGG ACAACATCAC ACCCAGCTAA TTTTININAT  
TTTTGTAGA GACGGGGTTT CACCTGTGTT CCCAGGCTGG TCTCAAACCT CTGAGCTCAA GCAATCTGCC CACCTAAGCC  
TCTCAAAGTG CTGGCAITAC AGGCATGAGC CACCGTGCTT GGCTTGGGAA GCTCTTTTAA CAGAGGTGAT GTAAAGTAGA  
AAAAGCAGTG GGCTC

SEQ ID NO:2068: (Length of Sequence = 274 Nucleotides)

GCAACCGAAT GGACAGGGA AAGAAGGAAT GGAAGAGGC AGAGCTTCAA GCTAAGAACC TCCCCAAGC AGAGAGGCAG  
ACTCTGATTC AGCACTTCCA AGCCATGGTT AAAGCTTTAG AGAAGGAAGC AGCCAGTGAG AAGCAGCAGC TNGTGGAGAC

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CCACCTGGCC CGAGTGAAG CTATGCTGAA TGACCGCCGT CGGATGGCTC TNGAGAACTA CCTGGCTGCC TTGCANTATG  
ACCCGCCACG GGCINATCGN ATTCTNCAGG GCTT

SEQ ID NO:2069: (Length of Sequence = 321 Nucleotides)

GTGCCATCTG TTTACTTCTC AAATGAAAAA GAATTCAGGT CTGAGTGTC AGGAAAGGGG GTGAATTTC TAACCGCCTG  
TGACAGCGAT GGAAGGAGC CACACCCCTC CAGAGGTAC CACCCAGCG ACAAGTGGG AGGAGGAAGT AGCTGGCATG  
AAGCGGCCC ACCCAACCTC CGGGAGAGAG GAAAAGGAGA ACACGGGATG AGGAGGCTTT AAATAGTATT TCATAAAATA  
AAAATGCCCA GCACTCTTAG GAACCTCTCA TTCAACCGCC TAGTTTTTGT TTAAATAATT CTAATGCCAG AGCTGGGGG  
C

SEQ ID NO:2070: (Length of Sequence = 161 Nucleotides)

AAAGTCGAT AAAACAAGTT TAATTTCCAA CCAGGGTCAC AGTCATCGCG TTATCCACA TTTTGAGCAA GGATAGAGAA  
GGTGAGTTAT TAAACATATA CAGTCATACAT TCCAGAGGAG GAACTGCAGT TACCACTATA ACACCACAGA CAACTTTGG  
G

SEQ ID NO:2071: (Length of Sequence = 288 Nucleotides)

GTGGAAGGGC CTTCATACAT GCTTCCATC TTCAGGAACA TCAGAGAATT CATACTGGG AGAAACCATT CAAATGTGAT  
ACATGTGGTA AGAAGTTCCG TCGTAGATCA GCACTTAATA ATCATTGCAT GGTCCACACA GGAGAGAAAC CATACAAATG  
TGAGGNCITG GGTAAAGTGT TCACTGTAG CTCAAACCTT CGTATCCATC AAAGGGTCCA CACAGGAGAG AAACCTTACA  
AGTGGAAGA ATGTGGTAAG TGCTTTATTC AGCCTTCACA ATTTCAGG

SEQ ID NO:2072: (Length of Sequence = 284 Nucleotides)

TCTTGCTTC AGACCCCTTT GCGTATTGT CCTCTCTAAC TGGGACCTAA GCTAAGACTC AAGGGCTGCT CCCATGCCCT  
TCAGTATCCC CCATAAAATC TACTACACA TTAGAAACTC AAAGAATAGC ATAGGCATGA TCCATCACCT GCAACAGAAG  
CAGTGAGGAG ACTTAAGCCA GGGTCTCTNC AAGNGATTNC ACCGACCTT CCTGCATCTC TGNATGCCG ACTCCTAAGC  
ATTTACTCAG ATTTTAAACA GCACATAATG CCATGGCGAG GATG

SEQ ID NO:2073: (Length of Sequence = 270 Nucleotides)

GGAGCGATAC GCCCCTGTG CGAAGGACCT GCGTCTAGA GATGTGGTGT CTGGTCCAT GACTCTGGAG ATCCGAGAAG  
GAAGAGGCTG TGGCCCTGAG AAAGATCAG TCTACCTGCA GCTGCACCAC CTACCTCCAG AGCAGCTGGC CACGCGCCTG  
CCTGGCATTN NANAGACAGC CATGATCTTC GCTGGCGTGG ACGTACGAA GGAGCCGATC CCTGTCTCC CCACCGTGCA  
TTATAACATG GCGGCAATC CCACCAACTA

SEQ ID NO:2074: (Length of Sequence = 278 Nucleotides)

GCACATGCCA TCAGTCTGG CTAATTTTIG TATTTTIAAT AGAGACGGG TTTCGCCATG TTGGCCAGGC TGGTCTCGAT  
CTCCTGACCT CAGCTGATCT GCCACCTCG GCTCCCAA GTGCTGCGAT TATAGACAGG AGCCACCGNC CCGACCCCTC  
TCTACTTCT CAAATCTCTT TCCTTTTCC ACCTTCTAGG TGTCAAAGAC AGTGGATGGT CTCTGAGGTT CAAAACCAAG  
CTGACCGGT AAGTATTTAC AGCAAAGCAT CCAATGGG

SEQ ID NO:2075: (Length of Sequence = 232 Nucleotides)

GTCTTAGGA TCACTCAA CCCAGGATCA CGTTTTGTA ATGTTATCAA GGCATGATT TGGATTTCAG AGCTGGCCCA  
GTGAACAACA AGCAATCAAG CATTCCTTC TCTTCTTC TCTCTCTCAC ATATACACAC AACTCTTTC TCTCTCACGT

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TACTTTCACT GTCACCTTCT CTCTACTGGA TAACAGGCCA AAAGTACTGG CACTCATCTT TCACTTTCTT CC

SEQ ID NO:2076: (Length of Sequence = 223 Nucleotides)

GTCACGAGGT CAGGAGATCA AGACCATCCT GGCTAACACA GTGAAACCTC ATCTCTGATC TATTCAGGGC TCINACTTCT  
TCCTGGTTTA GTCITGGGTG GGIGTATGTG TCCAGAAATG TATTGATTC TTCTAGATT CTAGTTTATT TNGTAGAGG  
TGTTTATTCT CTGATGGTAG TTGTATTTC TATGGGATCA ACGGTGATAT GCTCTTTATC ATT

SEQ ID NO:2077: (Length of Sequence = 323 Nucleotides)

GTCCCCCTTC CCCTCTGTG AGACCAGGCT CTGTCTCAGG AACAGGCGTG AGGGAGGAGG AGCCACGTC CTCCTTCCTT  
GGAGCCCTGA GGTGGCCAGG CTGTCCCCAC ATAAAGCATG ACATCCAGGT GCCAGCTGGC TAAGAAATGG AGCCTGAGGC  
TGCAGCTCAC CACCTGTACC TCACAGATGT CCATTGAGAG GAAAGAAGGG TGCTCCAAAC GCCAGGCCCC CAAGGAGCAC  
AGACTCAGGG TCCAGGCAGG TTCAGTGCTA GTAGGCAGGT GGGCACTGCT GTCCAGGAAA ACCTGGTGGG CAGCTGTTTT  
CCC

SEQ ID NO:2078: (Length of Sequence = 310 Nucleotides)

AATTTGCAGT TGTTAAATCA AACCTACTGA CATTTATAGT CCCTTACTTT CTCTCTTTC TTCCATTGTA AATGCTGAA  
ATGTOGTACA GTCATACTTC CCACTGTATT TTTAGGTTTT ACTCTCATA TTCAATAATC ACTACCACCC TTTATTTCAA  
TAAAGTTTT AAGTCAGTGC TGATTTTTTG GTAGCTCCCA TTTTCTGATA TATTGTTCAT GTACATATGC AAGTGTATGT  
AATGTAGGTG TGCATCTATA TATACCCACA TATACATATA TACATATACA TATATATGTC CATATACAG

SEQ ID NO:2079: (Length of Sequence = 281 Nucleotides)

GAGACCTGCC AGAAGATTAA AAAAAAGAAAT GAGAGAAAAG CCCAGTTAGT GGTGIGCAAA CTTACTTCCT TTAAATGTCC  
CATGGATGTA GGACAGTGCC ATGTTTCAAG ATGCCTGIGA GCTAGGTCTT CAAGATTTAT AGAATGTTAC TTATGAACAA  
AATATAATTA TTTATGGTAC AATCTTTGTA CTTAGCAAA TCTGGAGTTA GTTCATAGTC AAAGTCAGTT AATATTTCTT  
AGAGGAAAGT TTTGGCTTTT TGTGGCAACA TTTTATAGC T

SEQ ID NO:2080: (Length of Sequence = 311 Nucleotides)

ATTAAAAAGA ATATTATTTA TTATCTNCTT TATTAATACT CACATGTAAC CTTTGCTTTT TACACAAAAG TCTGCTTTAG  
AAGAAATGCCT CCNCGGCTTA TCATGCCCAA TGGGGCTTTT TGTTTCTGGA CCACTTCCCC TTTCTCCACC CCCACCCCA  
CATCCAAATT ACTCTTAACA TGTTACAGA TACCACGNAT ATTTTGTAAG CAAGNITTGG GTTACTGGAA CTTGATTTCA  
TTAACATCCC ACTTCAAAT GGAAGGCAGG TGGAGGGCAG GGTAAAGNAA TAGGGGGAAA GAGGGCAAGA G

SEQ ID NO:2081: (Length of Sequence = 207 Nucleotides)

GGACGCACGC TCGCTGCCAT CACCGCTGGG TGGTTTTTTC CCCCTAACTT TTTACTTAGC CTTTTTGGTT TGTTTCCCCA  
CCCCACCTC CTCACCCCT TTCCAGTTCT TCTTCAGGCC CCTCCAGAC GCACCCAGC GGCCCTGCA GCCCCTGCCT  
CCAGCCTCCA GCCTCACCTT TGTGCCAGA CTCGCATTG GAAGACT

SEQ ID NO:2082: (Length of Sequence = 260 Nucleotides)

TTAAAAGAAA GTGCATACCT ATTTGCAAGG AAAACAAATG GAATAGACAA AAATTTTAGA ATATAAGAC TTTTINCAT  
TTATGTATGT GTTTACAATT CAAAATAATA AAGCTAGTTA AAGTCAATA CATATTAGAT ATATTCAAAT ATTTTNCCTA  
ATAAATTCG ATCTTATCAG TTAACACCCA TAGCAAAGA CTAAGGAGTA TTTGTATAAC ATTAGGGTAT TTGACCTCAT  
ATTCTATTCA TTTGGGTTTA

SEQ ID NO:2083: (Length of Sequence = 257 Nucleotides)

AGTTTCATAT GTTTATTAAA CCAAGCATGA GGCCCTTCTG TGCACAGGCG CCTGTGTGAC GGCATGGGAG GCGTGCTCAT  
GAGGCTGGGC GTGCCCGCCA GAGACCTTTC TAAAATGCAG ATTACGACT CTCCTCTCA AGCCACCCTA GTGGCCAGTG  
GGGTCAATTC GGATCAGAGA TTCCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTINAGGA  
ACTAGCTGCT AGGCTCT

SEQ ID NO:2084: (Length of Sequence = 255 Nucleotides)

TATTATACAG CATGTGCAAG ATTATTGAC AAAAGGCAGT AACAAGCGA AGGAAAACAC ATTTACAAGA AGCTGAACAA  
CTTGATCAG AACATACATC AAGGTGAAGA GTTTCGGCCC TCTTGGTATA GGTATGTAT GTGTACATCT CCAATTTTGA  
ACAATGATGA CATAAGGCT AATACTCTAT TTATTCAGG GACCCATAA TCAGGATAAT AGTAGGCATT CAGAGTAATA  
AAGTGATCAC AGTTG

SEQ ID NO:2085: (Length of Sequence = 290 Nucleotides)

GGACGCACGC TCCTGCCAT CACCGCTGGG TGGTTTTTTC CCCCTAACTT TTTACTTAGC CTTTTTGGTT TGTGTCCCA  
CCCCACCTC CTCACCCCT TTCCAGTTCT TCTTCAGGCC CCTCCAGAC GCACCCAGC GGCCCTGCA GCGCTGCT  
CCAGCTCCA GCCTCACCTT TGTGCCAGA CTCGCATTG GAAGACTCA CCTCCGCC AGGCCTGGG TGTGGGGG  
TTGGAGATTC AGGTTTTAAT CCACACAAGC CCCAGTGAGG GGTGAAGCAT

SEQ ID NO:2086: (Length of Sequence = 342 Nucleotides)

AGTTTCATAT GTTTATTAAA CCAAGCATGA GGCCCTTCTG TGCACAGGCG CCTGTGTGAC GGCATGGGAG GCGTGCTCAT  
GAGGCTGGGC GTGCCCGCCA GAGACCTTTC TAAAATGCAG ATTACGACT CTCCTCTCA AGCCACCCTA GTGGCCAGTG  
GGGTCAATTC GGATCAGAGA TTCCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTINAGGA  
ACTAGCTGCT AGGCTCTCTA TCCTGGGAGA AGAAGGTGAA GGTTCGCCAA TATCAATTTT CCCAACTCAG CCAAGATTTT  
CCCAGCATCT NCAGGACAAG TG

SEQ ID NO:2087: (Length of Sequence = 306 Nucleotides)

TATTATACAG CATGTGCAAG ATTATTGAC AAAAGGCAGT AACAAGCGA AGAAAACACA TTTACAAGAA GCTGAACAAC  
TGTATCAGA ACATACATCA AGGTGAAGAG TTTCGGCCCT CTGGTATAG GGTATGTATG TGTACATCTC CAATTTTGAA  
CAATGATGAC ATAAGGCTA ATACTCTATT TATTCAGGAG ACCCCATAAT CAGGATAATA GTAGGCATTC AGAGTAATAA  
AGTGATCACA GTTGAATGAA CGGTTCACC AAAAGTCTTA GACCAACCTG ATATCATCTT ACACCT

SEQ ID NO:2088: (Length of Sequence = 326 Nucleotides)

ATTGAATAAC TTAGGCAATC TTCCACTTTG ACTGAAATGA TTAAGATCAG TTACCGAAA GTCATTTTAT CCTTGCCTTG  
CAGGCATCTG GCTATTCTTG GTGCAGGCT GATGGGAGCA GGCATCGCC AAGTCTCGT GGATAAGGGG CTAAAGACTA  
TACTTAAAGA TGCCACCCTC ACTGCGTAG ACCGAGGACA GCAACAAGTG TTCAAAGGT AAGCTGCTC TCTCTCTTG  
CAAGAGTAG AATGTCCTTT GTTCTTGGT TAGTGTGTTT TTGTGGTGC TTGGTGGGT TTTTGTGTTG TTTGTCTTG  
CCATCA

SEQ ID NO:2089: (Length of Sequence = 291 Nucleotides)

GGGTTCCCT TTCCACTCAT CGGAGATCA GAGGGATGAG CTGGACCAG CTGGGACAGG GGTGTCCGT GAGGCTGTAT  
CGGCTGCT GATCATGGA GCGGCGGAG GCTCCCTCAT CGTCTCTCC ATGCTGCTCC TCGCAGGAA GAAGCCCTAC

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GGGGCTATCA GCCATGGCGT GGTGGAGGTG GACCCCATGC TGACCCTGGA GGAGCAGCAG CTCGCGGAAC TNCAGCGGCA  
CGGCTATGAG AACCCACATT ACCGCTTCTT GGAGGAACGA CCTGACCCG G

SEQ ID NO:2090: (Length of Sequence = 293 Nucleotides)

TTATGTGGAA TACCACACGC CCTGGTACAT GGCTGAACTC TTCCCTTCA TCCTGCTTGG GGTCTTCGGG GGCTTGTGGG  
GAACCTCTTT CATCCGCTGC AACATCGCCT GTTGCCAGGAG GCGCAAGACC ACCAGGCTGG GGAAGTACCC GTGCTGGAG  
GTCAATTGTG TGAATGCCAT CACTGCCATC ATTGCTTACC CCAATCCCTA CACACGCCAG AGCACCAGCG AGCTCATTTT  
TGAGCTGTTC AATGACTGTG GAGCCCTTGA GTCTTCCAG CTCTGTGACT ACA

SEQ ID NO:2091: (Length of Sequence = 274 Nucleotides)

CTTTTGAAT GGTCAAACAA TTAAAGTCAA ATGTTTAAAT GGTGCAATTA AAATAAGGGT TCAAACATGT TTTCAATATA  
TTAATNCTT TAAAGTCATG TTCAGGCAAG GTGCTGTTA AAAAACCCT ATTAGCTTTG TCCACACATG TAAGTTATCA  
AAAGTTACCA AGGTAATTTT GACGTTGAAT GCAGCTTTAA ACAATAAAAA AATGGTATTA GGTTTACTTC TCGAAGCAAA  
GAGAGCCCC AACCTTGTA ACTAAACATT CTGA

SEQ ID NO:2092: (Length of Sequence = 290 Nucleotides)

GGTACGTAGG ACGCTGGCCC TGTCCTCCG CGGNTCTGG TCAGACACAA TCATGGTCTC CACCAGGAGG TGTCAATGC  
CTGGNAGGGT GGTTCGTCC AGGTCCAGGA GGGCAGATCC ATGGGCGATG GTCTCTCTGA GCTCCAGAAG GCTACGGAAG  
GAGAGCGAGG CAACATGGGG CTTCCTCCAG CGCTCCGTCT CCTCTCCAC GTCTCTCA AACTTGATCC AGCGGGCCGT  
CTCCCGCAG TGGGGCTCCT GGCTGCGGTC CAGCATCAGC TCGTTCAGCT

SEQ ID NO:2093: (Length of Sequence = 323 Nucleotides)

AGCTACACTG ATACAAGTGG ACCTAAAGAA ACGAGTTCG CTACTCCGGG ACGAGACTCC AAAACCATCC AAAAGGGATC  
AGAAAGTGGG CGTGGGAGGC AGAAATCTCC TGCACAGAGT GACAGCACAA CACAGAGAAG AACTGTAGGC AAAAAACAAC  
CCAAAAAGGC TGAGAAGGCA GCTGCTGAAG AGCCTCGTGG AGGCTGAAG ATAGAAAGTG AAACCCCTGT AGACTTGGCT  
AGCAGCATGC CCTCCAGCAG ACACAAAGCA GCCACCAAG GCTCAAGGAA ACCCAATATA AAGAAGGAGT CTAAGTCTTC  
CCC

SEQ ID NO:2094: (Length of Sequence = 255 Nucleotides)

AAGGATGTTT TGGTTCCTG CCTCAAGGC GGCCATGTGG GAGTTGTATC TGTGGAGTTC ATGCCCCAG CCTTGGAGGG  
AACGTATACT TCCCATGGC GTCTTTCTCA CAAAGGCCAG CAATTGGGC CTCGGTCTG GTGCAGTATC ATAGTAGATC  
CTTCCCTC CGAAGAGAGC CCGATAACA TTGAAAAGG CATGATCAGC TCAAGCAAAA CTGATGATCT CACCTGCCAG  
CAAGAGGAAA CTTT

SEQ ID NO:2095: (Length of Sequence = 305 Nucleotides)

GCACTCCAGC CTGGGCAACA AGAGCGAAAC TCCATCTCAA AAAACAAAG AAAGAACTN CTGAAGTCGG GGGCTGCTAG  
AGGATTTTCA GGAAGGTICA ACACAGGCCT CACTTCCAGT CCTCATTTT CCAGCTCACA GAGTCACCAG AGGGTGAGAA  
GCAGAACGTG CCAGCAAAGA GGGAAAAGGC CACAGAACCA CTTTCTCTC AATTACAAAG GGGTGATTT CAGAGGAGGG  
AATAGGGATG GAGAGGAGGA GAAGACCTGC CCAGGAGCCA GATAAATTCA AAGTACCAA GATGG

SEQ ID NO:2096: (Length of Sequence = 327 Nucleotides)

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CTAGATATAA CTACCCCTCT CTATTCCTCA CCTAAATCCT TATACTGCTG ATGACTTTGG AAAATAGTAC AGGGTTTTAC  
 AGTCTAATCA TGACAATACA TCTCCAGGNT CCTTGAGCCA AATACATTCC TCAGAATACT TTTTTTAAAA AACTGAAATT  
 GATTACTTGT ACTTTGTCTAT CACCAAAAAT ATCTGTAGCA AGACATACTG TTCTCAGCAT CCACCTCTAC CATCTCACT  
 ATTGTAACTC ACAGTAGACT ATGCCTCCTA CTTTACTGAA AAGATACAAA CCATTACCTA GCAATCATTG TTCCACCTTA  
 AACATAT

SEQ ID NO:2097: (Length of Sequence = 296 Nucleotides)

CACCCCTGCTG AGGTCAATTT CGTCACTGAT GCCTCGGGTC ACATAGGCCC TGATGACCCA GATTTCACAC AGAGGTCAGT  
 ACATCGGTCA ACTTTCTCTC CAGGAGGGGC CGGGGCTGGT GGGCCATGCC CACTCCGTGC CACATGCCCTA GCATTCAGAG  
 CTTTGTAAAG AAGCCCTGTT CTAAATGCTC AGGTCCACC CTTCTTGTG AAGAGAAGCC ATGGGCTTCC TGCTCCTGTG  
 TCACAGTGTG CCACTTGAAG GGTCGCTCTT CCCATTCTT CTTCCATGGG GGCCAG

SEQ ID NO:2098: (Length of Sequence = 324 Nucleotides)

ATTTGGTTTIN TTGAGTGT TTCTCTTTT NITTTGTTTC AACATACTTA CTGCGTATAA AGTCATGCAA AGAAAACAGT  
 GCAGACAGTA GATCCTAGTG GATGTGCCAA GGTATTCCAC TCAGAGTCAA TCCAGGGAA AGAGGGAAAG AGGAAAAGAA  
 AGAGAGAATG CGAACCCGAG GCTGCAGGAT GAGGCATGAA GAGTAGAAAT TCCAGTGTCT TTGCTGTGGT CATCAGACGC  
 CAAGGGGAGA GAGGCAATNA AGACACACGC TCAAGGGCCC CCCAGAGGTG GTTGGGGGGT GCTGGGGGGC GGCACACAGA  
 TATG

SEQ ID NO:2099: (Length of Sequence = 299 Nucleotides)

GAAACCGTCA GTAAGGAGCT CTTTATCTTT ACCTTCCAC TCCAAACCTA CTGCTAGCT GTTCTTATCA TTGCTCCTT  
 TTCTCTGTC ACAAAAATGT GTTCCATCTT AATGAACACA TTTCTTAAT GTCTTCTTA ATGAAGGACA GTCCCTTTCC  
 CTGTGCTGTG AATCCCATAG TAATGACATT AGCTTAAGTT TTCTGAGCAC TTGCTATCTG CCAGTCTCTC CCATGAATTA  
 TCTTGCTTAA GCTTTGCACT ATACCTGTGA AATAGGTGGC AGTAGTTGTC CCACCATAC

SEQ ID NO:2100: (Length of Sequence = 308 Nucleotides)

GCAGCTTAT TTGGATTGG TTCACAATGT GGATCAAACA GGAATCTG TTATCATCAA CAAGACCAGC AGCACCAGAA  
 TNNCCGAGT CTTCCAGCAG TGCAGGCTCC TCAGGNTCC TGTCCTGCAC CCATCCACCT CTCCAGAGCA CACCCCTAGT  
 CTCAGGTGTG GCAGCTGGCT CTCCAGGCTG TGTGCTTAT CCAGAGAATG GAATAGGGGG CCAGGTGTCT CCCAGCAGCA  
 CCAGCTACAT CCTCCTTCCA CTGAAGCTG CAACAGGCAT CCCGCTGGG AAGCAATCCT TCTTTAAT

SEQ ID NO:2101: (Length of Sequence = 291 Nucleotides)

GATGATGATT GCATGGGGTT TGATGCTACA CTGGATCATA GAGTGTGGGT TCTTTCTTAC ATGINTTGGT AGATAAATGT  
 CATAGACTGA TCCTGAATCC ACATCAACAG CATGGAATCC AGCACAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC  
 TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAATGA CTTAAAGGCC ATAAATTTGG TGATATGGCT  
 TTGGNGCCCA CGCATAGGAC TTCCACAGAA CTTTTTCAAA GGCAATCACC C

SEQ ID NO:2102: (Length of Sequence = 323 Nucleotides)

GATGATGATT GCATGGGGTT TGATGCTACA CTGGATCATA GAGTGTGGGT TCTTTCTTAC ATGINTTGGT AGATAAATGT  
 CATAGACTGA TCCTGAATCC ACATCAACAG CATGGAATCC AGCACAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC  
 TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAATGA CTTAAAGGCC ATAAATTTGT GATATGGCTT

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TGGTGCCAC GCATAGACTT CCACAGAACT CTTCAAAGCA ATCACCAGAA ATTIGATTCT TTCATATTTT ACAACTTTAT  
AAT

SEQ ID NO:2103: (Length of Sequence = 270 Nucleotides)

CCTTTCACCTC CCCCGCCCTG GGCCTCTGCT CTCTTGCCCTG GNTTCCTTCT TTTTGTAGGG AAAGAGGGTG GGGCTGCAGG  
CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA  
ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT NTGACTNGGC  
CAGGGCACAC GTTGGTCTCG GCACTGGCTG

SEQ ID NO:2104: (Length of Sequence = 367 Nucleotides)

CCTTTCACCTC CCCCGCCCTG GGCCTCTGCT CTCTTGCCCTG GNTTCCTTCT TTTTGTAGGG AAAGAGGGTG GGGCTGCAGG  
CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA  
ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT GTGACTGGGC  
CAGGGCACAC GTTGGTCTCG GCACTGGCTG TAAGGTCACC TTCCTTNCCTC TGGATGCTGG TTTCAACCAT CTATATATGG  
CATCCACGCA TGGGATCTGC AAGCTGGAGC CCTCTACCC GCAGCTT

SEQ ID NO:2105: (Length of Sequence = 288 Nucleotides)

GCAAAATTAC TGAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT  
CAGCAAGGGT GTGATTGAGG AGCCCAAGTA GCGCTGCNC TTGCTTGGTG GATCCAACAC CAGCCCTGCG TCGTGGGACT  
TGCTCANAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAATC TTTTCTCCC TTGTACTTTT TTTTGACCTG  
GNATCTTTT ATAGGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTG

SEQ ID NO:2106: (Length of Sequence = 349 Nucleotides)

GCAAAATTAC TGAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT  
CAGCAAGGGT GTGATTGAGG AGCCCAAGTA GCGCTGCNC TTGCTTGGTG GATCCAACAC CAGCCCTGCG TCGTGGGACT  
TGCTCAGAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAATC TTTTCTCCC TTGTACTTTT TTTTGACCTG  
GCATCTTTT ATAGGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTGCA AGGAAAGCTG CCGTCTCTTT TGGCAGTCTT  
GATGCAGAGC CTGCACTCTG GCACTCGCT

SEQ ID NO:2107: (Length of Sequence = 329 Nucleotides)

GTGACAAGCT CCAGAAGCCC GNTTCGCAAC ANCCAGGAGG GCCAGGCCAC TCCAGGCAGG AGGCAGTGGG CTGGCAGCCA  
CCCTGGGCAC AGAAGAGCAG ACGCAGACAG TGCTGGGCAA CGAGGGGCTT TTTTCATGGG CCCGCCCTGC CTGTCCCTCC  
CCCCAGGTCC CCACCTTCTA GGGTTAAAGT GCAGCTGGGA GGGAGGAGGC AGGCAGAATT NGGGAGCTAG AGAGAGCCCA  
AGTGAACCT GACTGTCCAC GCAAGTCCCA TGTCTCTCTC GTCTGGAGT TCCTCGAGGT TCAGCGAGCC CATCCGCTT  
AGGGCCTCT

SEQ ID NO:2108: (Length of Sequence = 261 Nucleotides)

TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC  
TGAGCCTCCT GACTTCGGT CACTGGATAC TCTCTGAGG GCTCATGATT TAACTCTGT AGTCACTGCT GGCTTGGAAA  
CCTCTAATC TCTCTGCCCTC TTGACAGTGT TCCCTCAAGG GAGTCCATTA GCCAGGACTA GGTATACATC CCCTGTGTTA  
GCTGTGAGGG ACAAGGCAGA G

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SEQ ID NO:2109: (Length of Sequence = 329 Nucleotides)

TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC  
 TGAGCCTCCT GACTTCGGT CACTGGATAC TCTCTGTTAG GCTCATGATT TAAACTCTGT AGTCACTGCT GGCTTGGAAA  
 CCTCTAACTC TCTCTGCCTC TTGACAGTGT TCCCTCAAGG GAGTCCATTA GCCAGGACTA GGTTCATGTC CCTGTGTGTA  
 GCTGTGAGGG ACAAGGCAGA GAAATAACTG CCCAAGTCA GCITCCATA ATGTTTGGGG GATGCTATGA CTCAACTTTG  
 ATCTATTTT

SEQ ID NO:2110: (Length of Sequence = 271 Nucleotides)

GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCAGTTCC CCCAGGGCCA CCTGCCCTG  
 AGGTCTTGT GTGGCCGCC TGGCTTGGCA GCCCTGCCCA CGCTGCCCC GCAAACAATG GTGTGTGGT TTTTACAGCC  
 CTTTTTAGGA ACCCAATATG GGCATAAATG TAACACCTGT AGCGGGGCA GATTCTCTGT ATGTCAGTT AACAAATTAT  
 TTGTAATGTA TTTTTTTAGA AATCTTAAAA T

SEQ ID NO:2111: (Length of Sequence = 315 Nucleotides)

GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCAGTTC NCCCAGGGCC ACCCTGCCCT  
 GAGGTCTTGT GTGGCCGCC CTGGCTTGGC AGCCCTGCC ACGCTGCCCC CGCAAACAAT GGTGTGTGCG TTTTACAGC  
 CCTTTTTAGG AACCAATAT GGCATAAAT GTAACACCTG TAGCGGGGCG AGATTCTCTG TATGTCAGT TAACAAATTA  
 TTTGTAATGT ATTTTTTTAG AATCTTAAAA ATTGCCTTGT CACTGAAGTA TTTTCATAGC TGTTTATATC TCITT

SEQ ID NO:2112: (Length of Sequence = 275 Nucleotides)

GCAAGANAGA CCAAACCTA ACCTGAGTTA CAAGAAACAA GACAGTAATG GCTATAAAGG GAGTGACCAG GAGCAACTGG  
 GACACTCCTT TACCTCCCAT ATCCAATGTA TGINTTTTAC AGAAAAACAA CAAAATTAAAC AAATTCACAA AATACACAG  
 CTAGAATTAC AAAATCCATT CATCCAAGGG TGGTAGAAGG CAGGATGNA AGGTGGAAGG GTAAATNGCA CAGGGAGAAA  
 AACAAAGTGT TCCAATCAGT CCAGGCACAG GGAAT

SEQ ID NO:2113: (Length of Sequence = 227 Nucleotides)

GGCGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGT AAGAGACAAC  
 TCCAGTGCAG TGCCAGGTGG GCAGGCTCCC ACTGTTCACT TGAGACGCTC CTCCCCACTC AGGTGGGGAC AGGGACACA  
 CTCGCAGGGC AGGGCAATTCT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGT

SEQ ID NO:2114: (Length of Sequence = 339 Nucleotides)

GGCGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGT AAGAGACAAC  
 TCCAGTGCAG TGCCAGGTGG GCAGGCTCCC ACTGTTCACT TGAGACGCTC CTCCCCACTC AGGTGGGGAC AGGGACACA  
 CTCGCAGGGC AGGGCAATTCT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGTGGG GCAGGAGGGA  
 AGGCCAGTTC GTNGGCAGGC TGAGGAGGGA ATATNACCCC CCTCAAGTCC CCAAGTGGC AGGCAAGTTA AGGGGCCCTG  
 GATGAGGTGG CCCCTCATG

SEQ ID NO:2115: (Length of Sequence = 262 Nucleotides)

TGGAACACAA AATTCCCTGT NITAACATG TACATTGGG GCCTAGCTGC CCTTGAGGAT GTCCTAGTTA CACCCCTCTT  
 GATACCTGTG GAGTTTAAGC ACCATTCTTA CCGCTGTGTC CCTTNGGAGG GGGTGCAGTG GAAGCTCTTA AAGGGGAATG  
 CTGCTCTGCT CTCGTGGCT TTTGTGTGG GAAAGGGAGT TNGGATGTA GGATTTAGAT TTNAGGTCAI GATGTCAGAG  
 CACACCAGGA ACTCCAAGG CT

SEQ ID NO:2116: (Length of Sequence = 153 Nucleotides)

AAGAAGCGAA GAGGATTGCT GAGCTGGAGC AGCGCAANAC ACGGTGCTGG TGACAGAACT CAAAGCCAAG CTCCATGAGG  
AGAAGATGAA GGAGCTGCAG GCTGTGAGGG AGAACCTTAT CAAGCAGCAC GNGCAGGAAA TGTCAAGGAC GGT

SEQ ID NO:2117: (Length of Sequence = 231 Nucleotides)

GAATATAATG TGTATCTNCA AGGNTGATC CACCCTINCC CATCCTNTGG AGCTCAGAGA TTCTTGGGAG CTGAAGGTCT  
TCTTAATGTC AGATCAGCAA CCCCAATCTC AGGCAGCTCG GATTCGCTGC TCTCGATCTN CCGCTGGCCA ATGTAAAACC  
AGACGCAGGC GACCCAGTGC GCGACAGGGC GAACACGGCC ATGAGCAGTG TCAGCACCAC GCGCTGTAC T

SEQ ID NO:2118: (Length of Sequence = 309 Nucleotides)

CGGGAAGAA CAAATTGGAA TGGTGGGGGA TATGGGTGTG TGGTGGGGGC GGGGCAGGAG GTCCTCCGGG GTCCAGCATG  
GGTCGGGAGT GGGAGCAGGA CAGAAGGTGG CCACGTCACA GGCGACTGAT GCTCAGCTCA AGGGGAGTGT GAAGAGGTTG  
GCAAAGAGCT GGGGAGCCGG GCAGAGGGAC AACACTGACT NAGGACATTN CAGTTGGGAA TCAGAAAAAA AGGGGCAGCT  
CAGGGGCATC TGATCTGCCT CATTTTGGAA AAAGAAACAG AGTAATGTAC AAAATTCTGG ATATCTTCT

SEQ ID NO:2119: (Length of Sequence = 308 Nucleotides)

GGTAATCGTT GAAGATTACC AAAGGTTTAT TTGGAATGAC ACAGCACTGA AAACATAATT GTTACAGATG ATTTGTGGAT  
ACAGCATACA CCATCTAATT TACTTTAGAA CAATCTGTGA AGATGAGTTG CATAAATAGA AAGAGGTGGA AATATAGAGG  
AGCTGTTTTT ATAGTGTCTT TTTGGGGTGA GATGAATATG CCCCATCTTT CTACCCAATC TCATAAAGGC AGAAGAGAAG  
ACTGCTTAGC TGCCCATCCC AACTAGCCTA CCTCCAGCCA CAGCGGCTGG ACAGCTAGAT AAATCAGG

SEQ ID NO:2120: (Length of Sequence = 237 Nucleotides)

CCGCTCTCCT GACGGGAGCC CACTAGGGGG TCCTCTTTCA TCTTTGGTGT GGCCTTACCT CCCACCAAAG AGATCCGAGG  
CTTACTCTTC TCTCTCTGG ACCAGCATGA CCCAGGAGTC CTTCAGGAG AGCTCTGTGA AGGAGCTGAG GCGGCTGGAG  
GACCAGCTGG CCGGCCCTGA GCAGGAGCTG GCGGCTCTGG CACTGAAGCA GAGCTCGGTG GCGGAAGAAG TGGGCCT

SEQ ID NO:2121: (Length of Sequence = 224 Nucleotides)

GCGGTCAGAG GCTGAGGCCA GAGAGGTAGC AGCGGAACIN ACAGGGAGGC CAGGGGCAGA GCTGACCCTG GAGAGGGATC  
CTNATGCTCT AGACACATGG TTTTNTCTG CCTGTCTCC CTTTNTGCC CTGGGCTGGC CCAAGAGAC CCCAGACCTT  
GCTCGTTTCT ACCCCCTGIN ANTTTTGGAA ACGGGCAGCG ACCTTCTGCT GTTCTGGGTG GGCC

SEQ ID NO:2122: (Length of Sequence = 202 Nucleotides)

CAGCTGCAGC TTCCAACCAA GAAAACCTCA AAGCATTAGG GAAGGAGCAG GTGTGGGGCT GGGGTGGGA GAATCCCTA  
AGCTCCAGGG CCCAGGGTCT AACCTGAGAG GTGGGGCTG CAGGAAGCTG GGGGAGGCTC CCGGGGCTG GGAAGAGGA  
GCCTGCCCC AGCAGAAACA GCAGGTCTCA GCGGCTACAT GT

SEQ ID NO:2123: (Length of Sequence = 359 Nucleotides)

ATTCTCTCT GTTCTCTGA TGTGTAGGA AATTGAAGA ATGACTCTGA TAAAAATCTA AAAGAGAAAC ATCGAATCCT  
AATGGCTGT GTGACCCTAA AACCTTACTC CGTCTCTTG AACCTCAGAT TTCTCAGGCG TTGGCACATA GCAAGCATTT  
CATACTCAGA AGCTGGTACT ATTACTGTG TGTTTGTGG GGGGAGGTTT GTTGTGTTG TTGGAGACA GGATCTGGCT

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TTGTTGCCCT GGCTGGAGTG AAGTGGCGCC ATCATAGCTC ACTGCAGCNT CGCCCTCCTG GGCTCCAGCG ATCCTCCCGC  
CTCAGTCTCC CGAGTAGCTG GGACCACCTG CGGATGCCG

SEQ ID NO:2124: (Length of Sequence = 233 Nucleotides)

GAAACGCCGT GCATCTCTTG TCIGTTGGCA GCGAGCACAT CGTNTGGAGA CACGAGTTTC TAAGCAGCTG GCACGAGGGC  
TGCTGACGGC ATGGGTCTG CTTCAGGGTG GCAATACCTC TTAGGAACCT AGGGCAGGAA GCAATACCTC AGCATTGAAT  
GTGTGTAAAT AGTTGCTTTG AGTTGCAATT GCTATTINCT TCTCAGTCCC AGCTCAGATC GAATTATATA TCC

SEQ ID NO:2125: (Length of Sequence = 241 Nucleotides)

GCCATGGCTT TTGTCAGGT TCAGGGGGG TGAGGGGGTG CTCCTCCCTT CCCCCCAGGC ACTGACACAT TGAAAGGAAG  
CAGAGCAACA ATGACACAGC ACGGATGTGG GAAAGGGGAT CCCCCACGCG GGCAGGATGG TCCATCTCAC CGGGGTCTCA  
CCAGGACTCC CCGCTCCAC CCAGGGCCAG CACGAGCACC TCCCGTTTC TCCCCAGTGC AGAGCGTGGG GTGACAGGAG  
T

SEQ ID NO:2126: (Length of Sequence = 275 Nucleotides)

GTGTGCCCTC TTGCTGTGTC TTAATTCTATA AGGAGTTGTA TCCTCCACC TGCATTTCAA TACTGCCGCT TAGGACCTAA  
GTAGAAGAGC AGTAAAGGCT GATTGACACA CAGGGGGATG GAGTTGGTCC TTGTCCATTC TCTCACCCTT GCTGTGCATG  
TATCAATCCT TATCCAGAA GGTACTATTT AGACTGTATA GACTGATTTA GATTACATAC TTTAGAGGAT TAAGGAAACC  
ATAGAGTTTG GGCCTTGGAA CTGTTACTGC CTTGT

SEQ ID NO:2127: (Length of Sequence = 296 Nucleotides)

TTCAGCCTTA TCGAAACACA TGAAGCAAAA CCATTGAAAC TGTATGTGTA CAACACAGAC ACTGATAACT GTCGAGAAGT  
GATTATTACA CCAAATTCG CATGGGGTGG AGAAGGCAGC CTAGGATGTG GCATTGGATA TGGTTATTTG CATCGAATAC  
CTACAGCCCC ATTGAGGAA GGAAAGAAAA TTINTCTTCC AGGACAAATG GCTGGTACAC CTATTACACC TCTTAAAGAT  
GGGTTTACAG AGGTCCAGCT GTCTCAGTT AATCCCCCGT CTTTGTACC ACCAGG

SEQ ID NO:2128: (Length of Sequence = 322 Nucleotides)

GCATGGGAGG GAGGAAGAGA GGTTTGGGT GCGGTGGCAG GTGATATAGG GAAAGGGCTC ACGTTTCAGA ATCTGTGAAC  
AATTCCATTT TTTCATCAGAT AGCAGAACA CTACACAGC AAAACCTAGA ACATCTCAGA CAGCAGCTCT TGGAGCAGCA  
ACAGCCTCAA AAGGCCACTC CTCAGGATAG TCAGGAAGGA ACCTTTGGGT CAGAGCATTC AGCGTACCA TCACAAGGGA  
GTAGTCAGCA GCATTTTCTT GAACCTGAAG TCAATTTGGG ATGATTCCAT AGATATTGAG CAACAGGATA TGGATATAGG  
AT

SEQ ID NO:2129: (Length of Sequence = 222 Nucleotides)

TTTAGTGGGT CTGGGGTGGG CGCGCCCCC GGCTAACGGG GCGGGTCTCC TCCTCTAGGC GCAGGAGTGC GCGGTGCTCT  
CCAGGCCTCC CCGCTAGGT GGAGCGTGAC ACCGCAAGC ACACGTCCT ACGAGGGG GGCCCGAGCG GCACCAGCCC  
CTCCCCAGAT GGAAGTGCCC GGCAGACAGC TGCCCAAGAC CTCACAGAAC AAAGATGGAC AT

SEQ ID NO:2130: (Length of Sequence = 191 Nucleotides)

GTTGGATGCT TTATTTCACT GTGGCGGGGA GGAACCTGG ACAGGGGGCG GCAGGCGGGG TGGNGGCTG GCACTCAGGC  
GGGACTAGG CAGGGGAAGG GCTGCCCCCA GGCCTGTGA GGAGAAACTN AGGCCAGCCC TGGCGGAGAC CTAGCCAGC  
GGGTAAGGA GGGTGGGGGA AACTGGGTC T

SEQ ID NO:2131: (Length of Sequence = 280 Nucleotides)

CTGAGTCTTG TCGATCCCGA CCAGGAAGAG CAGCTCAGCC AGGAAGAGGT TGATGCACAG GTTCTTGTTGG ATGGTGTTC  
GGTGGTCTG CAGCCCCCGC AGAAGCAGAA GGTGGAGATG CAGATGGCCA AGCAGACCAG GGAGATCACA ATGCCCCACC  
AGGTGATGAC CGACAGCAGC AGCTCGTTGA TCGCGCCCTG GTAGATCTCA CGGTGAGCCA TGAGCACAGC GAAGTTGGTG  
AGGTGGCTGC AGGCACACGT GGTATGGGTC TTGTGGACT

SEQ ID NO:2132: (Length of Sequence = 201 Nucleotides)

ATCCCCACAC CATGCGCTGC TCCTCCCATG GGGCTTTAGC TCCCTGACC ATCTGCTCAT GTAGCCTCTG ACTGGGCGCA  
CAGTGGTGCA GGAGGAAGGA CCGGGAACCC TGTGTGGCTT TGGGCAAGCT GACAAACCG TCTGGAATC AGTTTCCCCA  
GCTGTGAAAT GGGGCCAGTC CCCATGCCCT GCTGTCTCC T

SEQ ID NO:2133: (Length of Sequence = 180 Nucleotides)

GATGAAAATG TTGTGACCAG AGGCTTGCCA TTNCCTAACT CTATTTGCCA GAGGAGCAAT AGTTCTGTAT TCGCTAAATT  
TGTGTTTACA GAGACTTTAA GGAACATGAC TGTGTGGGAAT AACAAGAATT AAAGGTATTT ATTTACTTNC TCTATATGAT  
TGTAATATTA TACCCATACT

SEQ ID NO:2134: (Length of Sequence = 302 Nucleotides)

ATGAACAAAC GGGACTATAT GAACACTTCG GTACAGGAGC CCCCTCTTGA CTACTCCTTC AGAAGCATCC ACGTCATTCA  
AGATCTGGTA AATGAGGAGC CAAGGACAGG ACTACGACCA CTGAAGCGTT CAAAGTCGGG GAAATCACTG ACCCAGTCCC  
TGTGGCTGAA TAACAATGTT CTCAATGATC TGAGAGACTT CAACCAGGTG GCTTCACAGC TGTTGGAGCA CCCAGAGAAC  
CTGGCCTGGT TCGACCTGTC CTTAATGAC CTGACTTCCA TTGACCCTGT CCTAACAACT TT

SEQ ID NO:2135: (Length of Sequence = 291 Nucleotides)

TCCTACCAAT CTGACATTC AATCAACCA CTTCTTGACA CATGTCATAG AAAAGTGACA TCTCTTCCC TTCAACCAAT  
ATATCCTCCA ACAACATCAA CCTCAACAGG TAGCTAGCAT TGCTTCTGT TGAAATTAG AGCTGGAAGA AAGGATTTCA  
CAATCTCTCT GTGGAGACCC AGGAATCCGT TACCTTCTGG GATTTTAGAG AGTGTGGAGA GAGATGAGCA GGCAGTGAGC  
CGGGGACCAA CTCGATAAG AATATGAAGT CAGGAAGTGA GAGAGGAAAC G

SEQ ID NO:2136: (Length of Sequence = 282 Nucleotides)

GCTGTACAAG GTCTTTTCT TTGTTGTCAT GGTGTATTTT GTACATTTC GCATTTGCAT CATAAAAGG GGGGAGCAAC  
AGCCATGGCT TTTGGTCAGG TTCAGGGGG CTGAGGGGGT GCTCCTCCCC TCCCCCAGG CACTGACACA TTGAAAGGAA  
GCAGAGCAAC AATGACACAG CACGGATGTG GGAAAGGGGA TCCCCACGC GGGCAGGATG GTCCATCTCA CCGGGGTCTC  
ACCGGACTC CCCGCTCCA CCCAGGGCCA GCACGAGCAC CT

SEQ ID NO:2137: (Length of Sequence = 322 Nucleotides)

GAATTGACAA CATATTGCCA AAATCTTAGT GGATTTTGCC AACACTATTC TGCTGATAGG AAAAAAGAAT CATTGAGCTA  
CTTTCCAATT TAGCCACAAA ATAGGCTCTT TTTTCTTCAT TACTACTTTA ACCAGTATGT TAATACTGAA AATAGGTATA  
AAGAAATCAC AAATAACCTT CTCTGTTTG AAGGAAATTT AAAATAGCAC ACTTAAATTG AAAGTNAAGG GAACTTTAAT  
TCACTACTGT AATTTTAAAA TGCTGTATC ATGTAGTGTT TGCACAGTTT TAACCTTAGT TTACCATCTC TTACTCCTTA  
GT

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SEQ ID NO:2138: (Length of Sequence = 305 Nucleotides)

ATGCTGAGTC GCAGTTCOGA TGTTCCTATG CTTCATCAG CAAATCTCAA TTTGTCAAGA TTCATGACAG ATTCTTCCCC  
AGCGTTTGGT TTAATGGAG GGACTTTATC TCCAGGCTG CATGACTCTT CGATGCTCAG GGCACATGCC CGACCAAGA  
CAACCAGGTC CAAGAGCGAG TTTNCCCCGA GCGGGTTGGC ACCATGTACC GAGGCACAGG CGGCCTCCCC ACAGGCGTAC  
AGGCCGGGCA CAATCTGATC CTGGCCATTC ACGTGCCTCA GGACCTGCCC CTGTAGTTG GTGGG

SEQ ID NO:2139: (Length of Sequence = 263 Nucleotides)

CGCCCCCAG CAACAGCTTC AGCCCTCTCC ACCAAGCTTG CCATCAAGGA GATTCACCA CTGCACTCCA GCCTGGGTGA  
CAGAGTTAAG ACTCTCATGG GGACTACT GTTCAAAAGG CCCTGGCCAA ATAACTCCCA AATGAAACAC TCAACCCAG  
GATGTTTTCA GCCCACTGTT AGTGAAGCTG GGTGCAGAAT GCAAAGCCTC TAAAAGGAGA GGATACAAAG TCAGGTGAGT  
AGGGGCCATT GGCAATGCTC AGA

SEQ ID NO:2140: (Length of Sequence = 255 Nucleotides)

CTGCTTCANT CTGCGCCCT CAGCTGTGGC TTCCCGGCAT GCCCTGTGAC CCAAGCCGC AGGTACAGGA AAGAAGTTTG  
TGCTGGGGGA CTCAAGACC CAGAGTTAA TTAACAGGAA CCAGGGCCAG GGGCCTTCAT CTAGAGGTCA GTGGAGTCTC  
CAGGGCACTC ATCACTGTGG CTGGGAGACT ACAGTGTCTC GGCTGCGGAC TTGTGGAAGA AGAGGGGGAA GGATGGGAGA  
AGGGGTGACT GGATG

SEQ ID NO:2141: (Length of Sequence = 355 Nucleotides)

TTTAATTAAA TACCACITCA TAATGTTAT TGCACCTAGT ACTTTTTTTT TTTTAAATAA GACATGCCAT AAGTGTGAA  
GTTAACAAAA TATAAGCATC CGCAGAGAT ATATTCTAAG GTGACTTCAT TTACACCGCT TCTCAGAGAA ACACACAAGT  
AACCTTTTGT CTGCCTATCA GCCAGTGTG AACAGCTTT GGAATTCACA TGGAGGGCTG CCGGGCTGGT TCCCCAACAC  
TNGCCTGATG GAGTCTGTGA TCCGNACCGT GCGTCAAAAC TGGCTGGTTT CCACTAGAAA AGCAATGGAG AGTCAGCTCT  
CCCTCTTTTA CCCAGCGTTC AACTCCACAC TGCAA

SEQ ID NO:2142: (Length of Sequence = 391 Nucleotides)

CTGCTAAGTG CCATGAGACC TTAGCAGAGG CTGTGGGTGC CCCGCCCCAT TCCCTCCACT CACTCTTCCT TGCAGGTGAA  
CCTGCCCCTC TTGTCTGAGG CCTTTCTCTG CCTCCAGAGC CTGCTTGGTC CTCAGGCTGT AAGTGCAGGC AGAGCTAATG  
TCTCTCATA GCTGCCCTCC ACCAGCCTGC TCCAGAGACA CCTGTGGCC AGCAGCCTGA AGCAGAATCC TTTACTCAGA  
TTCAGCCGCA CAGATGCTCA CTGCAGAGAT CTCGAAGNC TGTGGTCATC CTTGAGCCCA TCTCAGATTT GTGTGGATAG  
GGTGTAGAG AACATGGAAT CAGCTGGATA GAGTGGTTCA TGCTTGTAAT NCCAGCACTT TTGGGAGGCT T

SEQ ID NO:2143: (Length of Sequence = 326 Nucleotides)

GATGCAGAAC AGCTTCTTGC AGAAGCACT GCTCCGGCAT CCAGCGCTGC CTGGAGGCAG GAAGGAGAGG CAGGGCAGGA  
CACGCTGGTC TGAGATGAGG GGGAGCCCCA CCGGCCCCAG GCAGGCTAGA GGAGGCACAG GGCCTGCCAC GGCCAACTCA  
GGTCAGCCAG CTTGAGGCTG TGGCTCCAA AGGGTCTGGG CGCACCCCC AGGTGCAGG TTNITGAGGC CAGCCAACTT  
GCAGAGCACT CGCGCGTGG GTGGGCTGAG TGGAGGTGCC TGGGAAGCTG CCTAAATTCA GAAGCCTCCA CTGCCATGG  
AGACTG

SEQ ID NO:2144: (Length of Sequence = 357 Nucleotides)

GCACCGGGCC CCAGGAGCCC ATCAGTGACA GAGTGCTCCA TGATGATGTC CTCCACCCGG GTGATGTACA GCAGCGTCAN  
AGCACCCCCA GGAAGTGGGA NAGCAGGATG CCCAGGAGGA TGCCCGCCAT GATGGTGTAG TTGTCCATGA ACCAGATGAT

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CACGGCGTTG GTGCAGCCCC GCACGTAGAT GACATCCTGC AACTGAAAC GTCCTTGTC GATAGTTTIN TAGCCACACA  
TGGTGTGAC AACTTCTGTC GTGTTCTGA TGCAGCAGGT GTAGGGCACC CCACAGGCCA GGGGTCCAGG GGCAGTGCAG  
TCGTGCTACT GATTCTTGCT CCAATCTCGG TAGTCCT

SEQ ID NO:2145: (Length of Sequence = 420 Nucleotides)

CGCCAGGAGC TGCTAGCCAA AGCATTGGAG ACCCTACTGC TGAATGGAGT GCTAACCCCTG GTGCTAGAGG AGGATGGAAC  
TGCACTGGAC AGTGAGGACT TCTTCCAGCT GCTGGAGGAT GACACGTGCC TGATGGTGT GCAGTCTGGT CAGAGCTGGA  
GCCCTACAAG GAGTGGAGTG CTGTCAATG GCTGGGACG GGAGAGGCC AAGCACAGCA AGGACATCGC CCGATTCAAC  
TTTGACGTGT ACAAGCAAAA CCTCGAGAC CTCTTTGGCA GCCTGAATGT CAAAGCCACA TTCTACGGG TCTACTCTAT  
GAGTTGTGAC TTTCAAGGAC TTTGGCCCAA AGAAAGTACT CAGGGAGCTC CTTCGTTTGG ACCTCCACAC TTCTGCAAGG  
CCTGGGCCAT ATGTTGCTGG

SEQ ID NO:2146: (Length of Sequence = 390 Nucleotides)

CCCAAATACT GTTCCCAA CTATGTCGGG CGGCCGAAGC ACATGCGGGT NATGGCTGGA GCCCTGGAGG GGGACCTCTT  
CATCGGACCA AAAGCAGAGG AGCACGGGG GCTGCTGACC ATCCGCTACC CCATGGAGCA CGGCGTGGTG CGAGACTNGA  
ACGACATGGA ACGCATCTNG CAGTACGCT ACTCCAAGGT TCAGCTGCAG ACCTTCTCGG AGGAGCATCC TGTGCTCCTC  
ACGGAGGCCC CGCTCAACCC GAGTAAGAAC CGGGAGAAGG CGGCAGAGGT GTTCTTTGAG ACCTTCAACG TGCCGGCCCT  
GTTTCTCTCC ATGCAGGCTG TTCTCAGTCT GTACGNAACA GGACGCAAGA CAGGAGTGGT TCTAGACTCA

SEQ ID NO:2147: (Length of Sequence = 219 Nucleotides)

TTTGIGGTTG GAGAGAACT GGTGTTCTGC CCGGCTCTGC TTGGTCACAG ACAGCTCCAG CAAGAGCAGT TGTTAAAAGT  
GCCAAGCGTG TGTATCACTG TGACAAGCCG TTTGCTTACT GCCCTGTTCC CTTCAGCCA AACCAGCTGA TGAAGAACTG  
CTGCCAGNG GGTCTACAG CAGGTCACAA ATGACCTAGT TTCATTTTAA GCAGACAGA

SEQ ID NO:2148: (Length of Sequence = 353 Nucleotides)

GAAATCTTTA TTACAAAAT ATTTTGCAAG CCAAAAAGTT TAAGTTGCAA CTATATACAA AATGGGGCCT GTTTCCTTCC  
CAGCAGTCTT AAAATAAACT CCTGAAACCA TGCTCCTTCC GCAGGTGGT TCGACCTCTT CCTTTTCTG GGGTTCAATA  
CACAAGGTAT GTGGATTCTC CAGGTGCCA GGCTAAAGCT AAAGCTATAC ATCTTCCITG GCCTTATTC CTTATTTCCC  
CCTCCAAGAA TTAATAAATA AAATAAATG AAAATGGCAC CAAGAAAACA TTCTTTTAAA ATACTGAATG TGTGTGTGCA  
TGCGTGTGCA CAGTATGTCC CTGTTCTCTG GGT

SEQ ID NO:2149: (Length of Sequence = 394 Nucleotides)

GGGAGACTT TGGGCTTNN TCATGACTGT TTGGGTCGAA GGTAGCTCAA GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT  
GTGTGTGTGT GTATGTGTGT AAAGTGCTAA GAAGTGTGCA TTGACATCCA AACATTTCTT GTACAAAATT TCCCTAGCAA  
AGCAAACCTG CTTGACTTA ATTTATTTGT TAAATGTTGC ACTTTGTTTA TGTATGTTT GTTTTGGTG GGAATAAGG  
AGAGAGAGGA CGACAAATTC TATTGAAGTA TTTATTTTGT GAAGATGGCA ATTTTGCAIT TGTTAAATA TTTTTCATTC  
NNTTAATTTT GTTATCAGTG CCAGCCCAAN ATACCTGCTC TACCATTAAT TTGCGGGCCT GATAAAAAGG GTCC

SEQ ID NO:2150: (Length of Sequence = 200 Nucleotides)

ACCTCCCTGG GCCTCGGAGA CGCTGACAGC TGGGACGACA GCAGTCCGT CAGCAGCGGC ATCAGCGACA CCATAGACAA  
CCTCAGCACT GATGACATCA ACACAGCTC CTCCATCAGC TCITATGCCA ACACACCTGC CTCCTCTOGA AAAAACCTGG  
ATGTGCAGAC TGATGCTGAG AAGCACTCAC AGGTGGAGAG

SEQ ID NO:2151: (Length of Sequence = 369 Nucleotides)

GTGCGCCCCA GTCCTTCTGA AACCTGTNAT CACACTTCGG GCACTGTCCC CTCTACAGTC AATCTGTGTT TTCAGAAGTG  
GCCCCAGGTT CACTCGTCTT ACAGCAGTCC TAAAGAGCG GCTGCCCTTT CCTAGGCTT CCTTGCTCTT NAGGGCTAAA  
TTCCAGCCCT CCTACCCAG TGCCACTTGG GTAAAAATAC TCTGCTCTC TCACGTTTGC TAATAAGCCC GGGCTCGAC  
TACCACCGTT CGGGGAAGG GAGCCCCTTA CCGTCATTGC TGGGTCCGCT CCGGAAAC ATGTGCCGGA CCTGACTGT  
CGGGGGCAT CTTTCGGAA ATGCCGTTT TGTTCCTTC TAAGGTGT

SEQ ID NO:2152: (Length of Sequence = 312 Nucleotides)

TTCAACAACA AATTGTGGGA GAAACACACC TTCCAGCAA TAGAAATCT CTATAAGTG CATTTGCCT GCAACCATCT  
CTTCCCATG CTGCCCCTG GGTCAAGATT TGAGGCACTG TTCCGAGGA GCCCTCAGG CCACCTGAGC TGGGAGAAGG  
GAGGCATGAA GCCACCATGG AGCTCCAGGC TACTGGACAT ACCCTCTCTA CCTGCCCTT CCTNTTGGC TCCAGGAGTG  
CACTGCCTGA CTCCACTGGC AGGTTGATCT GGAACGGGC TNGGCATGCT AGGGATGGTG GAGAAGTAGG CG

SEQ ID NO:2153: (Length of Sequence = 325 Nucleotides)

CCCAGACCCA GAATGTAAAT NAGGCCAAAA TGGCCACTTC CCAGGCTGAC ATAGAGACCG ACCCAGGTAT CTNTGAACCT  
GACGGTGCAA CTGCACAGAC ATCAGCAGAT GGTTCOCAGG CTCAGAATCT GGAGTCCCGG ACAATAATTC GGGGCAAGAG  
GACCCGCAAG ATTAATAACT TGAATGTTGA AGAGAACAGC AGTGGGGAT CAGAGGCGG CCCCCTGGC TTGCAGGGAC  
CTGGNGTCT GCACCACTTC CAGTGACCAC TTCAGAACC ACCTNGGNGC ACCCCCCAAT GTGCTCTGGC AGACGGCATT  
GGCTT

SEQ ID NO:2154: (Length of Sequence = 326 Nucleotides)

ATCATTTAAT TAACATCTTT AAATGAAACA CAGTTTCTT CATGTGCTC ACTCAGGCTT CAGGGCAGAG GGAATGGATT  
TTTAGACATA TCAAAGACTC AAAAATTAA AGAAATATAT ATATGTATAT ATATACTTCT AACATTTTAT GGAATTA  
AATCAGAGGC TTTTGGTCTC TCATTIACCT CTAGGTCAAG CTCATTTACC CCAGAGGACA AAGAAGGGCT GCCTCTCTA  
GACCTCCCT TCTCCTTTGT CCTNTGTCCC ACCCAGCAGG GAAACAAGCT CAGAAGGATC CTAACAGGAT AGAGTTTCCA  
GTAAAT

SEQ ID NO:2155: (Length of Sequence = 317 Nucleotides)

TGGATGAGGA GACCTGAAC ACACCTGCT ACTGNCAGCT GGAGCCAGG GCCTGTNACA TCCTGCTGGA CCAGCTGGGC  
ACCTAGCTTT TCACGGGCGA GTCCTATTCC CGCTCAGCAG TCAAGCGGCT CCAGCTGGCC GTNTTGGCCC CGCCCTCTG  
CACCTCCCTG GAGTACAGCC TCCGGTCTA CTGCTGGAG GACACGCCCTG TAGCACTGAA GGAGGTGCTG GAGCTGGAGC  
GGACTCTGGG CGGATACTTG GTGGAGGAGC CGAAACCGCT AATGTTCAAG GACAGTACC ACAACCTTGC GGGCTCT

SEQ ID NO:2156: (Length of Sequence = 372 Nucleotides)

CTTCAGCTG GCAGCCAGT GGGCCACCCA TGTCAGCAC TTTCAGTGG GACTCTTCAG TGGCAGCAAG GCCACCTGAG  
GCCGTGNTC CCAGCCACTT TCCTCTGG CACTGCCACC AGCCTCACG AGTGGCGGA TCTGGCTCA CTGCAGCTC  
TGCTCCCGG GTTCAAGCAA TTNTCTGCC TCAGCTCCT GAGTAGCTG GACTATAGCC GCGTCCGCC ATGCCAGCT  
AATTTTGTG TTTTGTAGTAG AGACAGGATT TAACTATGTT GGCCAGGCTG GTCTTGATTT CCTGACCTCG TGATCCGTC  
TCCTCAGGCT TCCAAAATG CTGGGATTAT AGGCATGAGC CACCACAACC GG

SEQ ID NO:2157: (Length of Sequence = 351 Nucleotides)

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CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA  
 GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC  
 CAGCGTCCCC TCCAGTCTGC ACGGGGCAGT CCTCCITGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC  
 CCTCTATCCC TCCCAGCACC TACTACATCG NCCINCATAT CCTGATTCC TGTGTATTG GAAACTINTG CCAGAGATGG  
 AGGTTCTCTC GGAGTATCTG GGAAGTGTGC C

SEQ ID NO:2158: (Length of Sequence = 280 Nucleotides)

CAGCTCCTGA GGACCGCTGC AGTGATGACA CAGGACTATT GCATCAGCAT CGTGCTCACA GGAATCAGA GCTCAGCCAG  
 GAGAGGTCCA AGAATGACAG AACCATGAGC ACTCCTACCA AAAGTCAGCT CTGCTCAGCC AAATCAACAA TTCAACCCAA  
 CAGGNCAACT CCTAACACAT CCCATCCAGA CAGACATTAG AGGCGCACAG CAGATGAACC TCCTACTTAC ACTGTCCAAG  
 GAAGCTGGAC TATCAATTCC CAGTAAAAGT GGGGAAAGG

SEQ ID NO:2159: (Length of Sequence = 342 Nucleotides)

CTTGTGCGIT TCTCCTACCA GATTGTGCAT GCTCCTGTG GGCAGAGCCT GTNCTGACTT GCTCCTGGGT CTCCAGCATC  
 ACCCAGTCTG GAGCTGAGGA CCTGGGTACC TACAGATTTC CTTCACACT GTCAGAAATG AGATGAAGGA AGCCAGAGA  
 AATCAAGTAC CCTCCACCAG GCAGAGCAAA GTCTGGGTG CCCAAATCC AGGGAAGGCA AGGGCTGGG GTACAAGCAG  
 AGGATCTGAA GAGGTATATG AGAGTNGCCA GCACAGACCT GGCATAAGCT TGGTGCTCAG TGAAGGTTAC CTGATGTTC  
 TGGCACCAG GGGTGATGCA GT

SEQ ID NO:2160: (Length of Sequence = 376 Nucleotides)

ATCTTAAGAC ACATATGGAA AACAATAGGG TAGAACTTAG TAACTACAA GAATATAAAT TGGAGCTAGA TGAAAAGGCA  
 GTGCAGGCAG TAGAAAAAT AGAAGAAATC CATTACAGG TTAGTTTTT AAATCAGGTA AGTTTATCTG TAATGTGCTT  
 TCATTTATTT CACCGCAAAT TATATTTTGG ATAATGATAT ATTATGTTTC CTCTGCCCTT CTGTAGCAA TTTGCTTTGT  
 AGAGTTCTAG AAAAAAATG GCATCTGTTT TTCCTTTTAA ATATTACAT TTCCATTATT ATTATAACAA AATCAATCTT  
 TCAGAGTAAT GATTCTCACT GTGGAGTCAT TTGATGATTA AGATCCAGTT GGCATA

SEQ ID NO:2161: (Length of Sequence = 404 Nucleotides)

CCCTCCTTGG GTTCAACTG GACTCTATC AGGTCTACTT CCTGGCCCTG GCAGCTGATT GGCTTCAGGC CCCCTACCTC  
 TATAAATCT ACCAGCATT CTACTCCTG GAAGGTCAAA TTGCCATCCT CTATGTCTGT GGCTTCGCT CTACAGTCTT  
 CTTTGGCCTA GTGGCCTCCT CCCTTGTGGA TTGGCTGGGT CGCAAGAATT CTGTGTCTCT CTCTCCCTG ACTTACTCAC  
 TATGCTGCTT AACCAAACTC TCTCAAGACT ACTTGTGCT GCTAGTGGG CGAGCACTTG GTGGGCTGTC CACAGCCTGG  
 CTCTCTCAG CCTTCAGGN CTGGTATATC CATGAGCAG TGAACGGGC ATGACTTTCC CTGCTGAGTG GATCCAGCT  
 AACC

SEQ ID NO:2162: (Length of Sequence = 339 Nucleotides)

CAGTCCCTTT TTGTAGCTTG GGATCTAATT TGTAACACCT TGCTACCTAT GAAAAGTGG AATGTAAAAG GGAAGGCA  
 ACTTGGCATT TACTAACTT AGGCTAACCA AAACCTCTG TAGAGATCCT TACTAGACAT GGGTGCAACA GCAAGCATCC  
 CAGAGGACCC ACCACTGGG TATGTTTTAG GCCAATGGAG CAAATCAAA TTTGGCTAAA AGAAGAAGAA ACTCATTTAG  
 TATGGCAATA ATATTGCGT TCGACACAAA GTGGCAAACC AACACATTTG GCCTAAACAT GGTCTATAT GTTATAATGA  
 TACTTACAA TTAGACTTC

SEQ ID NO:2163: (Length of Sequence = 285 Nucleotides)

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CCCGCCACC TCCAGCAGGA GCAGCTCAGT TTGTGGCTCT GGGAGCTCCG CTTTTCGAAA CCCAAAAAGG CTGTGCATTT  
GGAGCCAAA CGCTCAGCAT GCGGCTGCCG AGTCTGGTTT TGTGGACAAA GCAAACTGTG GAATGGCTTC TCGGTGTCTG  
TATAAAGGGA CAAACGGTTG CATTCAACCT TTGTACTATA ACACCGCTTC TGCAITCGCC ATATCCGTTT TTTAACCTTT  
TTGTCTCCG GGAACCTCTC ATTCGATTAT NATGTCTCT GATGA

SEQ ID NO:2164: (Length of Sequence = 296 Nucleotides)

ATGTTTGTA ATCACTTCCT TTTCCTACAA TATTTCTAAT AAGAAAGCTT ATAACAGCAC TTTATTGACA CCCTGGGACC  
CGGGGCAGG TCAGCAAGAC TCCAGCTGG CATCAGACTG TGTCTGGCCT GCTGTGCGCA TCCCTGAGGG GTGCAGGACA  
GAGCCCCATA GGCAGAGAG GCCTCCCTGG GACCAGAGGA GGATGCTGTG CAGCCAGGCC CATCCCCAGC ACTCGAGGCC  
TAGGAGGAGA GGTGGGCTCT GGCAGCGGGT GTNAGGTGGC AGTGAGAAGC CAGGCC

SEQ ID NO:2165: (Length of Sequence = 310 Nucleotides)

GTTTTTTGTA TGTTTTTCAA ATAATGTTTT TCTGTGTGTG TTTTTTINCT TTTTTTGGAC AGGNTCTCAT TCCCATTCGC  
CAGGGTGGAG TGCAGTGGTG CGATCTCAGC TCACTGCAGC CTGTACTTCC CAGGTTGAGA TGATTCTNCC ATCTCAGCCT  
CCCGAGTACC TGGGATTACA GGCACACACC ATCATGCCCG GCTAATTTTT TGTATTTTTA GCAGAGACGG GGTTTTGGCA  
TGTGACTCAG GCTGGTCTCG AACTCCTGGG CTCAGAGAT CCGCTGCCT TGGCCTCCA AAGTGTGGG

SEQ ID NO:2166: (Length of Sequence = 361 Nucleotides)

GATGGAACT GGAAAAAAA TAATTGTAA GCAACAATTT TAGATTTTTT TATGGAGGAT AGAGACATTT GAATCAGATA  
CCAAGAAATG TATAGTAATC ACTCACATAG AAAGATGTCT AAAATGGATT TTAAATGGGA TCGGGGAAAG CAAGGTGCTG  
AACAACATGC TGTACATACT ACTTATAAAT CAAAGCAAAC CACTAGCAAA CTGATGTGAG TACTAACACA GGTGGAAGTG  
GGATTGTGCC GGAGGGGAGA GGTAGTNAGG GTAGACTTAT TTGTACCATT TTNATTTTTG ATATTTCTTT TATATACAGA  
TACATAAGTC TGTATATACA TGTATGTCCA ATTATCTCCT T

SEQ ID NO:2167: (Length of Sequence = 325 Nucleotides)

TCCTGGGCTG TGCTCTGTTT GAAGGGGGCG CCCTGCTCCC CTCAGATCAG TCAGGAGGAA GATGACTAAG GGGAGGGATC  
CTCTGGGTGA TGGCCTCTTC CTCCTCAGGG ACCTCTGACT GCTCTGGGCC AAAGAATCTC TTGTTTCTTC TCCGAGCCCC  
AGGCAGCGGT GATTGAGCCC TGCCCAACCT GATTCTNATG ACTGCGGATG CTGTGACGGA CCCAAGGGGC AAATAGGGTC  
CCAGGGTCCA GGGAGGGGCG CCTGCTGAGC ACTTCGGCCC CTCACCTGNN CCAGCCCCTG CCATGAGCTC TGGGCTGGGT  
CTCCG

SEQ ID NO:2168: (Length of Sequence = 348 Nucleotides)

GGAGAACCGT TCCGGAGGA AAGGCGAACT AGTGTGGGA TGGCCACCA CTGGGGGAGC CTCTGCAGG ATAAACAGCA  
GCTAGAGGAG CTGGCACGC AGGCCGTGGA CCGGGCCCTG GCTGAGGAG TATTGCTGAG GACCTCACAG GAGCCCACTT  
CCTCGAGGT GGTGAGCTAT GCCCCATTCA CGCTCTTCCC CTCACTGGTC CCCAGTCCC TGCTGGAGCA AGCCTATGCT  
GTGCAGATGG ACTTCAACCT GCTAGTGGAT GCTGTGAGCC AGAACNGNTG CCTTCCTGGA GCAAAATCTT TTNCAGCACC  
ATCAAACAGG ATGACTTTTA CCGCTCGT

SEQ ID NO:2169: (Length of Sequence = 392 Nucleotides)

ATTTTGTGA GTTCCAGTTT GGGTGGCAGA AACTAAGACA CTGAGCTGAT GAGAGAACTT GTTGCTTTTC GCCCTGCGCA  
TTTATTTAT TATTTATTTA TTTATTTTGT TATTTTGTAGT AGAGACAGAG TTTCACCATG TTGGCCAGGC TGGTCTCAA  
CTCCTGACCT CAATGATCC ACCCAGCTCG GCTCCCAA GTGCTGGGAT TACAAGTGTG AGCCACCATG CCCGCCACC

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TGTTGCATCT TTAACAGCTG TGTTTGGAAA AGGGTGAGGA ATTGATTCAT CAATATTCAA TACTAAGCTG CAAAATCAGG  
AATGCAGCCA ATTGGTTTAA TTGATCAAGG CTTATAAACT CTTAAGGGAC TCTAGTGAAC TGATACAAAC TA

SEQ ID NO:2170: (Length of Sequence = 273 Nucleotides)

GTGTGTGTG ATGCTGTGTG TGTTGCTTTC TGTTTGTITT TCTTGCAATG GTCAGGTCCC ACTCTGAACT CCGGGGGGCA  
CCAACCTGAT GCCAGTAGGA TTGCCCTTGT ATAGGGTGTC TGACAACCCC TGTTGAGGGT CTCACCCCTGT TGGGTGGCAC  
ATGGAATAGG ACCCATTTAA TGAAGCACTT TTTCCCTTGG TGGAGGTAGT GTGCTTTTCT GGGGAAAAC CCACTTGTCT  
GGGCTGCTG GATTCTCTAG AACTACCAGG AGG

SEQ ID NO:2171: (Length of Sequence = 357 Nucleotides)

GTGATGTACC CCAGCACTAG GGAATGATGT GAGTAAGACC TAATCCCTGC TCTCAGGGAG CTTATAGCCT ATGGCAGCAG  
CAACACTAGT AAAAATTTAC TACTTTGATA GGTGCACATC TTCTTTGGT CAGCAATTTT CTCAAAACCA CTGTAACATT  
TTACTAAAT GCTAAGCTTT GATTGTTTTT CAACTACTTC TTGAGAGTTT CTGCATGTAT GATAAGGGCA AGACATTACA  
CTGAGGTATT GATGCTGATG AGCAGCAAGG CTCACTGGCT GGTGAAGGGA TACTGATTAG CACACCAATG TGCTGCTCTT  
GAACACACAC CTCCACAAA TTACAAATTA TCTTCCA

SEQ ID NO:2172: (Length of Sequence = 381 Nucleotides)

GAAGAAGGCC CATGGAGCTA AGGCCTCAGA ACACCAAAGT CTGGACTGTC TGAGGGCACA TGCTAATAAC AGGAGGCTGG  
CAAAGTGGCC AGCTCCCATG CCTTTGCAIG CATTTTCTT TACCTCTGC TGCTGGGAA CATCCTTCCA GGAGCAATCG  
AGTCAACAGC ACCACAGACA CTGCTATTCC GTTGAGAAAA GTTTTATATG GAAACACATA CTGATCATGA ACACAATAAA  
CAGGGAGGGA AGCTCGGGCT CAGCCAGGAA ACCTGCCACA AGGAAGATGT TTGGAATAT CCAGGAGTAG TGTCAAACAC  
TAACACCATA TTTACAAGTC TAATTTGGAA CCTGGGCCCT TTTAAGTGC AGGAGGAAGT T

SEQ ID NO:2173: (Length of Sequence = 351 Nucleotides)

GAAGTTCCGG GAGCGCTGA AGGAGCTCGT GGTCCTCAAG CACGTCAATG ATGTTGTGGA CGAGGAGCTG AGCAAGCTGG  
GCCTGCTGGA CAACCACTCC TCGGAGTTCA ATGTACCCG CAACTACCTA GACTGGCTCA CGTCCATCCC TTGGGGCAAG  
TACAGCAACG AGAACCTGGA CCTNGCGCGG GCACAGGCAG TGCTGGAGGA AGACCACTAC GGCATNGAGG ACGTCAAGAA  
ACGCATCTG GAGTTTATTG CCGTTAGCCA GCTCCGGGGC TCCACCCAGG GCAAGATCCT CTGCTTCTAT GGGCCCCCT  
GGCGTGGGTA AGACCAGCAT TGCTCTGGTC C

SEQ ID NO:2174: (Length of Sequence = 308 Nucleotides)

TCATTAAATA GCTTCTATGC CACACTCTGA TTAAGCCGAC TGAGGTCCCT GGGATCTGGG TCACTGGACC GAGCTGCTCG  
CTCGGTGGCT CCACTGCCAG GTCGGGGCGC GCTCCCCACA GCGCTCAGTT CTGGCCGAGA CAGGGCCTGA CATCCGCCG  
CTGCAGTCCC GGGGTGGCG TCACCGTTCC ACGGCCAGNG ACTCTNCTG CTGCTCCGGG AAGGCGATGT CGAAGATCTC  
CCGGTAGTNT TCCACGAAGG TAACCTCCAG GGCCCTCGGT GATGAAGGCT TCCAGGTCTG AGAAGTCC

SEQ ID NO:2175: (Length of Sequence = 403 Nucleotides)

CITGCCCAAG GGCTGAGCT GGTGGAGGCA GAGCAGGAGT TGGATCCAGG CCTGTNTGAG GCATCTGCC ACCTCCATCC  
AGACCTGGAG CAATCCCTGA GAAGGGTGGC TACCACCAGA GATGTGGCAG CTCTGGTCTC AGGAAGCATA GCCGGAGGAT  
GTCCACAGCA ACCAAACAGC CATTATCAG TAAGGAGCCA GAGTNAAGGC TGCTAGTTCA GCCCCCGAA GGTGTCCAG  
GGGAGCCAG TNCAGAACTC AGCAGGAGCT CAGTTCCAAC TGAGCCTGAT TTCACTCCAG TGTCACAAG GGACATCTG

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ACCTGGAGGT CCTCGGCTAC TCACCTGGG GCCINCTGTC ACAGCCCAGG AGCTAGCCCA GGGCTGCCTC TAAATGGTTC  
CCG

SEQ ID NO:2176: (Length of Sequence = 399 Nucleotides)

AGGCAACTAT TGAGGGAAGA GGCAGAAAAA GGAAAAAGGA ATGTACGTAA GGCAATTTIN CTTAAAAGTA CAATAAGCTT  
AATAGTGTTT TAGGAAGACA AGATAAAAAT TACTCAAGGC TAGCTTGGTT CTCCTGAAT AAAAACAAAG GACTAAATAC  
TGAGCTCCCT CTGTGTGGAT CTAATAATCA ATGCCTTGGT CGCTATATTG GTAATCTCTG GGGTAGTCAT CTGGTACTC  
GCCATGATAC TCATCAGGT ATTCTGCCCTG ATAATCACIA TCACTGATTT CCGAACCATT TGTTCCTGTT CCTTGGCTTC  
CGTGTGAAT GACAGGTTCT GTAGGAGCAG CACAGTATTT GGGATCATA TACTTGCCGN CCAAGGCCAT ACAAACTCA

SEQ ID NO:2177: (Length of Sequence = 302 Nucleotides)

GGTTTTATA AAAATCAGAA TTTTCAAAT GCATTGGTCA TTTTCAGATG CATTGGTCAC ATTCAATTAT TCCATATCAA  
AAAACGTCAT TTGTTAATGT CACACAAATC TCATTGGAAA GGTCTTCAAG TATTGTGAAG TTGTCCAGGT CACAAAGATG  
AATGCTAGTT TTTCAAAATT CTACTTTTAA CTTGAATGCT CAAATCTTAT AATTGGTAAC CCGTTCAGTT TTTCTTAGT  
TGATAGGCCT ACTGCTTTA TGTGTGAGA ATACTGTCT GTGAAACATC CAAATCTGGA AG

SEQ ID NO:2178: (Length of Sequence = 343 Nucleotides)

GGTTTCATC TCCTTGCCCA GGCTGGAGGA GCAATGTAT GATCTTGGCT CACTGCAACC TTCTCCCTTC CAGGCTCAAT  
CAATCTCTCT GCCTCAGCCT CCGGAGCAGC TGGGACTACA GTTGCCTGCC ACCATGCGCA NTAGGTTTTT TTTTGTAGA  
GACAGGGTTT TGCCATGTTG CCCAGGTTGG TCTCCAATC CTGAGCTCAA GTNATCTGCC TGANGTGTG GGATTATAGG  
TGTNAGCCAC CACATCCAGC CTCCTTTTAA TGTTTTGTG ATTATTTATA GTGAAAGATT TAAATTCCTT TCTATTTCTT  
TGTGGTATAT ATTCTATAGG CTA

SEQ ID NO:2179: (Length of Sequence = 377 Nucleotides)

AGATCATCAG GAATTAGATT CTCATAAGGA ACACACAACC TAGACCCCTC AGAGGTGCAG TTCACAGTAG GGTTCATGCT  
CCTATGAGAA CTAATGTTG CAGCTGATCT GACAGGAGGC AGAGCTCAGC TGGTAATGCT CACTCACCTG CTGCTCACCT  
CTTCTGTGT AGCTCGGCTC CTAATAGACC TGTATGTGTC CATGGTCTGC GAGTTGGGGA CCCTGCAGG AAGTCTGTGA  
AATGCATGTC AGGAAACTTA CTGTTTACAG CCACATAGTT TGTAGTAGTA AGGAAACTAG GACAATTCAA ATATTATCA  
NNGGGAAAC TGGGATAAAT TGTGGGTCAA TTTATATGT TTCATACAGG AAAAAAG

SEQ ID NO:2180: (Length of Sequence = 195 Nucleotides)

GATATTTGCT TTTCTCAGAA CCATAATCGA TACAAGATGC AGTGACCAAT TCATTCCTTA AAACACCTGG GCTCCTTAAG  
CGGCTAGAAG ACACAAGTTA CATCCAGCCC ATCAGGGAGC CAGAGGGNGA GGGGTCCCA GCCAAGCTCT GNCAGGCCT  
GCCATGGGGC AGNCCTGAC CGTNCAGCCA GAGGT

SEQ ID NO:2181: (Length of Sequence = 244 Nucleotides)

TTGGGTGGGA ACGGGCCCGG AGCGGGAGGA ACGTGACTCC CCAGAGGGAA GATGGGCATC ATACTGGGCC CAGAGCTGGG  
AAGGAGTTGC TGCCAGCACA GGGTGGGCCT GGAATCCCTT CGCCCTTACC CCCAGTGGTT GTGGCTGTAG CCCTAAGCCT  
GGAGAGCAGG ACCGGCCCGG GGTGTTNGN AGGCTGCCAG GTGCCTCCA GAGCTCCCA GGGCCCCAC CTGCAAGTNC  
CAGC

SEQ ID NO:2182: (Length of Sequence = 287 Nucleotides)

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CTCCTTGAGT CTGTTGACAC GTCACATGGT CAAAGTCTCC TCATTTCAGC CAGTCTCAAC AAAAAACACC CAACAGGGAT  
GCACTCAACT TGTGTTGCC ATGTGGAAC AGGTGGCAGG GCGAGAGGGA AAGTAGTAGA AGGGGGCTAT GGTGTGTCTG  
CAITTCAGTCC CCTCACATAA AGCCACATGG ATCTAGGGGG GTATCCAAGA GCTCTGGTGG GGTCCGTGTT GCACCTAAGA  
CATTATAGGT CAGAGCAAGT TGCTCAGAGG GTTCCAGGCA GGGGGCT

SEQ ID NO:2183: (Length of Sequence = 389 Nucleotides)

GATCCAGAGA GGGCTCCAGG TGGAGTCCCT TTITCTGCAT AAGGGGCTGT GACCGAAGCA CAGAGGGGAA AAAAAAAGT  
GGTGGGAGCC TCCTCTGGTT TCACCTGAAG AGGGAGGTGG AAGGGCCTGA AAATTAGATT TTNTTTATAA ATAATAGATA  
TTATAGGTAT ATTINCATAT TTTTACATAA TGATGCCAAC CACAAACAAT GGACCATAAA GCACTGACCT CAGAATGATC  
AATGCAAAA TGTTTAAACC CTGGAAGCT TTGCTTAGG AGGGCGGATA TTCTGTGTG ATGTTATTCT ATAGCCATAA  
ACTTCCCTGA ATTINCTGCT AATGTATCCA AGTCCAGGGA AGTCACCTAA AACTCTTCAA ATGCAGCTT

SEQ ID NO:2184: (Length of Sequence = 383 Nucleotides)

GCAAGAGAAG CGGTTTGGGT CTCTGAAGGA AAGGCCAAAA CCCAGAACAA AGAAGAATCC TATGACTTCT CCAAATCCTA  
TGAATATAAG TCAAACCCCT CTGCCGTGTC TGGTAATGAA ACTCTGGGG CATCTACCAA AGGTTATCCT CCTCCTGTG  
CAGCAAAACC TACCTTTGGG CGGTCTATAC TGAAGCCCTC CACTCCCATC CCTCCTCAAG AGGGTGAGGA GGTGGGAGAG  
AGCAGTGAGG AGCAAGATAA TGCTCCCAA TCAATCTGG GGCAAGTCA AAATATTGA GGAAGATGEN TCCACAAGGC  
CAGGTTACAG AGGAATGCAA GGAGCTTCCA GGAAGCACA GAATTCGAAG TTITCGGAAA TTT

SEQ ID NO:2185: (Length of Sequence = 359 Nucleotides)

CTTTAATTCA CATCAGCA GTCAAGGAAG TGGGGAAGG GGAAGAAAT CAAGTGGCAG ATATTTACAT CTAAAATTCA  
CAITACTTGT TGATTTTGA ACATGCTACC ACAATATATA CAGTAAATA CCTCTGGGA CAATGGTACA AATTTTGTIT  
CCTTTAATT TGCCTTTCTG GTACAGGTAA GATCATTTTT AAATCACTTT TTINCTTTAA ACATGAATAC ACAAAGAAA  
TGGTTAGAAG TTTCTTGT TTAATAAGC ACAGAATGCG GGAGGTTAAA AACACATTTA TAGTGCTGAA TACCAATTGG  
NCATCACACT CTATACATTT TTGCTCAA TTCTGTAC

SEQ ID NO:2186: (Length of Sequence = 337 Nucleotides)

ATAGTTATAC TCAGTGAAAT TAACAAGACC CAAAGGTGGT ATTGTCTAGG AATAAAGGG ATAATTTTG TTGTTACAA  
AAGTAACTTG TCTAGCACCA CACATCAGAA AACACAAAA ATAGCACT CTAGTTCTAA ACAGCTATGT CTAAAATAGA  
TTATATAGTA AAACGGTAT TATACAGCAT ATTGTGGATT TGATAAACAG ATAAATATTT GCNCTGAGTA GGTGTTTAT  
AATATAACAT TINCTTATCT ATACAGATG AAAGCCAAAA AGTTAACTGT ATAGAGATGT GCAGACAAC ATTAATATT  
ATGGCTCAA AGCAGG

SEQ ID NO:2187: (Length of Sequence = 329 Nucleotides)

GCATTINTCA GCACAGATAG AGCCCTGTCC CTCCACCTAG TGCCCACTCC ATGACTGTTA ATAATAACAA TAATAATAAA  
ACTACTGGCC AAGCACGGTG GCTCATGCCT GTAATCCCAT CACTTTGGGA GGTCGAGGTG GGCAGATCAC CTGGCCCAAC  
GCCACGGCT CTAGCTCCGG GCTCCCTGAG GTCCCACTG CCTTNNCCGG TCCACGGCT CCCACGNTGC CACCTGTCC  
TGACTCGCCA CCTGGTCTTG TGGGCAAGT GCTGATGAG TTCACCTCAC CCATGCCCT GGAGGCGGGT GCAGAGGGAG  
AACCAGG

SEQ ID NO:2188: (Length of Sequence = 335 Nucleotides)

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GGCCCCAGCT CCTCTTCCTG CCTCTNNAT GGCTTGGGCT GGAGTGGGCT CTCTGGACCT GACCGGGGGT CAGACTGTGG  
GTCCCTGGGT CTCTGCCCCA CTCTNACCGG GCTTCTCTCC TCCACGCTTA GGGTCTGTCC CGGGTACTCA GTCAGCCAG  
TGGGATCTTA CCCACTTCCC TGCAAGGTGC AACTGCCCCA GGCTCAGGCT GCCCAGCGGC TCTTCTTGA CAGTAAGAGC  
AGGGCTGGGC GCCTCTTTC TGGCCCGGAA GCGCAGGGG CCCCTCTCC AGAGCCTNGG CGCAAGGAAC ACAAGGCTGC  
CGCTGCTCTT CCAGG

SEQ ID NO:2189: (Length of Sequence = 366 Nucleotides)

AAC TGGTGA TCAGATGAN TTCTACTTTT CTNATGAAA CCTGGAGAAG GACGCCTTT TGCTAAAACA CGTGAGGAGG  
AACAAGCTGG GATATGTGAG CNTTAAGCTA CTCACATCCT TCAAAAAGGT GAAACATCTT ACACGGGACT GGAGAACCAC  
AGCACATGCT TTGAAGTATT CAGTGGTCTT TGAGTTGAAT GAGGACCACC GGAAGGTGAG GGAGGACCAC CCCCGTCCCA  
CTGTTCCTCA ACGAGAACCT CCCAGCAAG ATGCTCTTGG TCTATGATCT CTACTTGTCT CTAAGCTGT GGGCTCTGGC  
CACCCCCAG AAGGAATGGA AGGGTGCAAG AGAAGGTGAT GGAACA

SEQ ID NO:2190: (Length of Sequence = 333 Nucleotides)

CTGCGATCCA GCCTAGGCAA CAGAGTGAG ACCTATCTC AAAACAAACA AAACAGCCAG GCACGGTGGC TCATGCCTGT  
AATCCAGCA CTTTGGGAGG TCGAGGTGGG GGGATCAGCT GAGGTCCGA GTTCGAGACC AGACTGACCA ACATGAGAA  
AGCCCATCTC TACTAAAAAT ACAATATTAG GGGGCGTGGT GGTGCATGCC TGTAATCCCA GCTATTTTGG AGGCTGAGGC  
AGGAGAATCG CTGAACCTG GGAGGCGGAG GTTGCAGTGA GCCATGATTG AGCCATTGCA CTACAGCTG GCAAGAGCA  
AAACTCCGTC TTC

SEQ ID NO:2191: (Length of Sequence = 284 Nucleotides)

AAGTTTATAA AAGTTTGATT ACTGGAAAAG TTGATCTAA TTCAGAAATT TCAGGCCAAA TGAAACAGCC CCTTCAAGCA  
AACATGCCTT CAATCTCTCG AGGCAGGACA ATGATTGATA TTCCAGNGT TCGAAATAGC TCCTCAAGTA CAAGTCTGT  
TTCTAAAAAA GGCCACCCC TTAAGACTCC AGCCTCCAAA AGCCCTAGTG AAGTCAAAC AGCCACCANT TCTCTAGAG  
GAGCCAAGCC ATCTGTGAAA TCAGAATTAA GCCCTGTGTC CAGG

SEQ ID NO:2192: (Length of Sequence = 260 Nucleotides)

ATGACGACCG CTACCTCGAG GTCATTGGCT TCACCATGAC GINGTTGGCC GCGCTGCAGG TGGGCGGACA CGGCGAGCGG  
CTGACGCAGT GTGCGAGGT GGTGCTCACC ACATCCAAGG CCATCCCGGT GCAGGTGGAT GGCGAGCCCT GCAAGCTTTC  
AGCCTCACGC ATCGCATCG CCCTGCGCAA CCAGGNCACC ATGGTGAGA AGGCCAAGNG GCGGAGCGCC NTCCCTTTC  
CACAGCGACC AGCAGCCGGT

SEQ ID NO:2193: (Length of Sequence = 247 Nucleotides)

GGTCTCAGCA CTGCTGGGT GACCCGCGGG AGCAGGCAAA GGAGGGCTCC CAAGTCCGTT CTGCAGCACT GGGGCGGGGA  
ACAGACCCAG GNTCCTGGGA ATCTCTTCT GCCTAGCTTT GCCTGCTGC CAGAGCAGGG CCTGCGGTTT GGGTNCGTIN  
ACCNCCCGG GCGGGGGGA GGGCAAGNA GCGGATCTC TGAAGTCCG CCCAAGTTC CTNCTGATCC CCAAGGTCA  
GAGAGG

SEQ ID NO:2194: (Length of Sequence = 399 Nucleotides)

CCTCCATCTC CCGGTTCAA GCGATTCTCG TACCTCAGC TCACAAGTAG CTGGGATTAT AGGTGTCCGC CACCACACCT  
AGCTAATTTT TGATTGTA GCAGAGATGA GGTTCGCCA GGTGGCCAG GCTGGTCTTG AACTCTGAC CTCAAGTAT  
CCACCACCT TTGTGGCCT CCCAAGTGC TGAATTACA GGCAACATGT AGCCTTTGAG TCTAGCTTCT TCCACTAGCC

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TAATTCATTT GAGATTCCAC TCGATTCTAC TTGAGATTCA TCCACATTGT TGAATGCACA TTCPTTTTTA TTTGTTCTGT  
AGCATTCTGT TGTGCAGCTG TGCCCCAGTT TGTTFANCTA TTCACTCTCA GTTGTTCCTA GTTTTAATGA CAACTTCAG

SEQ ID NO:2195: (Length of Sequence = 172 Nucleotides)

TCAAAGTCAG CTTCTTGACC TGCAGGGCTT CAATTGTGG CTGACAGTTT TAACTCAGAA AATCCCTGAC TTGATTGGCT  
ACATAAATNA TATGINATAT AGCCATTAAG ATCATGGTTT TGGAAAGTAT TTTAATGATA CAGGAATGTG CTCTGAAATA  
ATAAGTGGGA CT

SEQ ID NO:2196: (Length of Sequence = 398 Nucleotides)

GCAAAAAAA AAATTATTAT CTCACITTA CCAGTGTGA CACTTCACCA ATGTAGGGCT CTCAGTGA CTAGCCAGGGT  
CATGCACAGC CTGTTTCAGC AGCTACCTTG GACTTGAACC CAGCTCGGTC TGTCTGACTC AATGCCTATA GTCTTAACCT  
TTCCAGCAGC TGCTTCTTTG TCAAACAGGT CCTCCCGCAG GTTTTCACAG CCCAGCCCTT TACTCAACAA GTATTTATTG  
ACAGGCCTCA GGAACACTAG GCAAGTAGGA TAGCAATGAA CAAGATGCTG ACCTTGACCT TGACCTGCA TCCATAGTAT  
GAGCATTTTA ACTGGGGGAG GGTTTGCAA GTTCTCTTAA ACAGTCTACT ACATGCTCTG TAAGCATTTT CTTATGGG

SEQ ID NO:2197: (Length of Sequence = 313 Nucleotides)

GTCCCTGTG CATTGAGTGC ATCCCCGCTG GTGACTAAGC TCGCAGCAAG CGGCTACCCC CCGATCTGCA AAAGGGCCTC  
TCCCTTTGTG TTCTATACAT TGTGAATCTT CCCGTCTGAA GAACGCCAG CCTGCCAGA CAAAGCCCCG CCTTNCCTAA  
AGCAGAGGGG CTGTCTGTGT CTCCAGAAAG GGGACATCGG GGGGAGGGG GGCTCAGAAA GGAGAAGGGC TGTGATCTCC  
GGTCCCTTCC CCCATCATCC TTCTTAGAC TGATGCTTTG ACTGAATCAT CACTAGCTAT GGGCATTAAG AGG

SEQ ID NO:2198: (Length of Sequence = 360 Nucleotides)

GGTCTCACTA TGTGCCCCAG GCTGGTCTCA AACTCCGTGTT CTCAAGCGAT CCTCTGCCT CGGNTACCA AGGTGCTGAG  
GTTACAGCGG TGAGCACTGC ACCTGGCTAG GAAACTNAGT TTTTTCAGTG GTAGAGGCTC CTAGCCAGTG GCCAAGGGAA  
AGAGAGAGTT CTGGGTTTCA GGGCTGGCAG GAAGTCAGCA AGACACCAGG GACTCGGCTC CACTGGCTGG ATCTCAGGGA  
AGAGCAACTG CCACAGTGGG GACCTGGAAC ACAAAGGGAA ACTGAGGCAG CAGCTGCACC ACAGTTTACA AGTAGAAAGA  
CCATGCTTGA GGACAACAGA AGTTTCACTA AGGATGCACG

SEQ ID NO:2199: (Length of Sequence = 374 Nucleotides)

TTTTGGGTAG TACCCTTGCC CTCTTCATGG CCACTTCAAA GTGAAGCCAG CAAAGTGATA ATACTTTATC ATTTAGTATT  
ATCATAAAGT ATTAATACTT TGTATATAAG TCCTCCTTGA GCCCAGGGAC CATGGAAGTC AGCTAGAAGA GCCCTGAGCA  
AGGAGCAAGG ACTTGGGCTT CTCCAGCTT TGCTCCTGGC TTGTTTGACC TTGACTCATT CCCCATATGT CTTTGAGGAG  
GCTCACAAAA TACTAAAGCT GGGAGGAAAC TTGGAGATCT ATAGGTCAAA CCTCCCCATT GGGCTGATGA GAAAATACAC  
GCAGGCCTAG CATGGTGCCT GCCACCATGG TGGGATCCAG TATGGTTTTA TAAA

SEQ ID NO:2200: (Length of Sequence = 416 Nucleotides)

CTACTAAAAA TACAAAAATT AGCCAGGCGT GGTGGTGGGC ACCTGAAATC CCTACTCAGG AGGCTGAGGC AGAGAATCGC.  
TTGAACCTGG GAGGCAGAGG TTGCAGTGAG CCGAGATCGT GCCACTGCAC TTCAGCCTGG GTGACAGAGC GAGACTCCAT  
CTCAAAACAA AACAAGCAAA CAAACAACAA CAACAAAAA TACCTCTTGA CTTCTAAAGA CGCAAAAGTG GCCAAAAGTG  
CAATACAGTA TTGTGTTTAT TTACATCTAT TTTAAATGCA TGTGTATCTG TAAATNCAAA GTGATTCTGT ACTCATTTGT

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TCCTCAGTCT ATAGCATTAT TAACTTTCTA GGAGCAGCAG TGGAGTAGAG TGGTACTGAA TTGGTCACAG ACTTCATCCG  
ATTATCAGGA TCCTGG

SEQ ID NO:2201: (Length of Sequence = 315 Nucleotides)

GAAACCAATA TAAATTTCAA AATAAACAG CATAACAGC AATTGCAATT TATAGAAAAA ATAAAAATGT AGAAACATCA  
CCTCCTCTCC CCGACCCAG TACTGAAATT ATACTTCCTC AGACATACTG CCCCATCACT GGGGAAGGGTG CCGACAGATT  
GGGTACATTT ATAGANTATT AAATAATTAA GTAACAGAGG CACCGTTTTT GCATGIATGG TCCCAAAGAC TTTTCAACTT  
NTTTTCAAC ATTACAGTTG TTAAGAATGG AAATTGAAGG AATTGTACAT ATTTTCACTG GCAGTTTCTT ACAGA

SEQ ID NO:2202: (Length of Sequence = 328 Nucleotides)

GCTCTGTAC TCAGCCTGGA GTGCAGTGGT GTGATCTCGG CTCCTGTCAG CCTCTGTGTC GCAGGTTCAA GCAATTCTCA  
TGCCCTCAGG TCCTGAGTAG CTGGGATTAC AAGCATGCC CACCATGCCC AGCTAATTTT TGTATTTTFA GTAGATACAG  
GGTTTCGCCT TCCTGACCTC AAGCTATCCA CTGCTCTGG TCTCTCTCAG TTCTGGGATT ACAGGTATGA GCCACCATGC  
CTGGCCGGAA TATATATATT TTTTACCACT CTATTTCCAG TGCTAGACT AAAACCCAGC ACATGGTACA CGTCATACAT  
AAGGAAGG

SEQ ID NO:2203: (Length of Sequence = 268 Nucleotides)

ATTTTGTGCT CGTCGCTCAT GCCACCCTG GGACCNACGG GGT CCGG AGTGGTTTTT CTGGCTTGTT TCAGCCTTTT  
CAGGCTCTCT TCCATCTTCT TCACAGAGTT TAATACATCT GACACGGTTT CATAGTACTT ATGAGTGCTT TCAGTGAGAG  
TGCCCTCTAG CCACCTCTGA ATTATTGCTT GTTTGAGCTT ATCCTTGCT CCGCTCTGAA GCTGGAATAA GGGCTTCANA  
GCATGTCCA CATAGGAGGA AGCTTTGG

SEQ ID NO:2204: (Length of Sequence = 353 Nucleotides)

GTAAATCINA GGTCAAGGAT GTCCCATGAT GGATGATGAC TGANATGGAC GGAAGTTGG TTTGAAGCGG TGGCATTTGGT  
GCAGGCTGGC AGAGGGGGCA GTTCTGGATA GAGTGTCCTG ATGAATGGGG ATACTCATGG GAGGTGATGC AGATGAGGAT  
TCINTGCTTC TNAAGGAGGA GCCAGGCATT TAGAATGGCA CTGGAGAGCA AGGACTGACT GANCCCTTC ACTGTGTCCTC  
CAAGAGGCCA GGAAGGGAAG AITGGAGGAG ACAAAGTTGA AGTGAGTTT CCAGGGAACG AGTCAGTTAA GAGATGGTAG  
GATCTTAAGG GAAGATGGCT AAGATCTTAA GGG

SEQ ID NO:2205: (Length of Sequence = 265 Nucleotides)

GTTCACCAT GTTGCCAGG CTGGTCTCAA ATTTCTNACC TCAGGTGATC CACCCCTCCT CAGCTCCCA AAGTGTGGG  
ACTACAGGCG TGAGTCACG CGCCAGCG TGGTTTTTTT TTTTATAGAA CAGTGTMTTG CCATGCTGCC CAGGCTGGTC  
TCAAATCCAT AGGTTCAAGT GATCTCCCA CCTCAGCTC CCAAAGTGTG GGGACCACAG GCATGAGCCA CCATGCTTGG  
CCAGAAAGAA GTTGTTAACA AAATG

SEQ ID NO:2206: (Length of Sequence = 340 Nucleotides)

GCAAAGCTTA TTTTTCAGT TGTTGGCTCT AGTTTGGTTG GGAACTATT TCCTTAGACC TGGGTACCC CTCGGGCTCC  
CTTAATCTCC CGCCATATGT TCTCCAGAA CAGGGCATGG TGTCTGCCC TGGTGCGACT CAGCCCGGTT GCTTTGCACA  
GACTCTGGC CAGGGCAGGA TGTCGGTGT TGCCGGGTGT TCGCCGGGTG TTATCTGTGG CGCTCAGTAT GGTGCATAGT  
GTAGACAGT GCCCTAGGTG GTGTTAATT GATCTGGTA AGACTCAGNC AAGGCAGGC ACAGTGGCTC ACGTCTATAA  
TCCAGCACT TTGGGAGGCT

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SEQ ID NO:2207: (Length of Sequence = 348 Nucleotides)

GTGTTTGTTT CTCTTCCAC CATAATTGTA AGCTTCCTAA GGCTCCCA GCCCTGTGGA ATTGTGGATC AATTAAACCT  
CTGTCCTTAA TAAATAACCC AGTCTGAGGC AGTTCTTTAT AGCAGCGTGA GAATGGACTA ATACACCTCC CTCTTTGAGT  
CTGGAAGAAT ATGTGAAGGG AGATTGCTAA GGACTTATTT ACAGAATGGT TCTTAAAGTG CTTGGGCAAG AACTATGTAT  
TTNTGGAGGC TGGTAGTGT TCAGTGAATC TGAAAACCTT TGTGACATGT GAGAAAGGTA TGCTGTCTCT GAAAGCTAAG  
TGTATTATGA AGGATCTATA AAGGGCCA

SEQ ID NO:2208: (Length of Sequence = 154 Nucleotides)

GAATCCTGCT GTGCACATTG CTTGAGATGG CTAATTATAT CTTTGGACTG TTTGTACAAC CATTGACAAA TATACTTACT  
TTCATTTCTG CTAATGCAAC TGAAAAGAGC ATTCTGTAAA TTGAAGAAAA ACAAATAAAC AGNAATTAAC AACC

SEQ ID NO:2209: (Length of Sequence = 352 Nucleotides)

GAGGTTGAGA ATCCTCCATC CAGCATCTTC CCTGGTCACA TGGTCCCAAC CTTTGTCTCC ACCCCTTCT CTGTCCCCC  
CGCAGTCCAT GCTCCAGCCA TCCTGACTCT GTCCCTGGAT TTTGCGCTTA CTGACACCTG AGCCTGTGCA CAGGNCCTCC  
CTTCTGTATA GAGCAGCCTT CCCATCTTGT GGACTTGTCT CCCATCTTGT GGACTCGGAG GGTTCGAGC AGCCGTTGAG  
GTGANGCTCC TATGACACCT CCNCCGTGAA GCCTNCCTCA CTTTCCATT ACCAGTGAGG CCTGCCACAG CCTGATTTGT  
ACTCTGATCC TGGCAGCAT GGAAGCCATC TT

SEQ ID NO:2210: (Length of Sequence = 338 Nucleotides)

GTCTTCCAT CAAGAGTCAA TGTATATGCA AATATAGACT TAAGAACATA AGCATCCTGG TTTAATGTTG TTGTGAGCCC  
TGTGGAAATA AAATTAACT CAGTGAATGT TTACAAATCA ATACATAGTA ATCTATATA TGAAAGCTAA GATGTATAAG  
ATGTTTATAA ATTINCTATT AGAAAATACT GCTTCTTAA AGGTGATTTT AAAAAGCTAG CTGATATCTG ATGGCTCAAG  
CATCCAGAAA ATGTATGCAA TGATAAGNCA TTGACTAGGA TGAACAGAAA AGGGATACAG GAAAAGTCCG AACACATGAA  
ATTCTAAATT AACCAAGA

SEQ ID NO:2211: (Length of Sequence = 353 Nucleotides)

GTTCCTGGAG TACCCTCTTC CCCCAACCCC AGACCTGCTT TCAGAGCAAA ACTCAAGTCC CTCTTCTCTC GTGAAGCTTC  
TCCCTCAGCT GAGCAGTGAT CACTTACTCA CTCTTAACCC CAATCGCTG ACTGGGTGGG GACAGCAGT CCAGCCTTCC  
CACCTCTCTT GCAGGCTTCT AGACGGAGTT TCAAAAACCTG ATGAGCCTCG ATCCAGGCT TGAAAGAAGC CAGGGTGTA  
TCTTGTTTAT GCATGCTTCC CCAGAGNCTC GCCAGTCC TGGNACATAG TAGGCACTCA ATAAATGCTG AATGGGTGAA  
TAGTTGAATG ATAGGTGCTC AATAAATGAA TGA

SEQ ID NO:2212: (Length of Sequence = 293 Nucleotides)

GAGAAAGGAG GCAATCTCAG TCTCGTCTC CAAAAGGGA TACTACTAGG GAAAGCAGAA GATCTGAATC ACTGTCCCCA  
AGAAGAGAAA CTCTAGAGA GAACAAAAGA TCTCAGCCAA GAGTGAAAGA TTCTTCCCCA GGAGAAAAAT CCAGGTCCCCA  
GAGCAGAGAA CGAGAAAGTG ATAGAGATGG GCAGAGGAGA GAGAGAGAAA GGAGANCCAG AAAGTGGTCT AGGTCCAGAT  
CTCATTCTAG GTCCCCCTCA AGATGTAGAC CAAAAGTAA GAGTTCATCA TTT

SEQ ID NO:2213: (Length of Sequence = 423 Nucleotides)

NATTAACACC ACAGTGATA ACAACTTTAA GCTTATGTTT CTTTATAGAT CACTGGCTCA CACATAATTC AAAACCCACA  
CAGAAGCTAA GAGTCTTTAC ATTAATATA TTCTTCTTAA AAATCCTTAC TGTATGCATC TGTCCTCAAG CAGTAAATTT  
TGATTATGCA CCATTTTATA ATTAATATGT CACATTTACA TAGCAAAATA ATGAAGGCAC AGCTAATACA AGCAAACCTA

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AACCCCTTCT ACTTCTGAGC TGGGGGTAGG GGCACACACT TGGGATTGGT TCTTCAAGTA TATATTTTIN CCAAACATTA  
GCTTCAGTGA AGAGTCTCG ATGATTTTCA CAGCTACACC CCTAAAAGCT ACATGGACAG AAAGACGTCA CAAGGCGCAA  
GGTACATAAC GGTGGGTACA TAT

SEQ ID NO:2214: (Length of Sequence = 259 Nucleotides)

GTCATGGAGA TCCACAGCAA GTACTNGCGC TGCTGCAGG ANCAACCTCC ACAGCGGGC GTTCTCTGAT CGAGGCTCAG  
ACTTTGAGAGA ACGAAGAAGC CGAGACGGTC ACCGCCATGG CCTCGCTNTC CGTGGGCGTN AAGCCCGCCG AAAAGAGACC  
AGATGAGGAG CCCATGGAAG AGGAGCCGCC CTINTAGCAC TNCCTCGAAG NTGCTGTCT CTGTCTGTC TGTCTCTGTC  
TTTAAGCTCA GCCAAGAAA

SEQ ID NO:2215: (Length of Sequence = 378 Nucleotides)

CACACATCCT CACCCACAG AAACGTCTGG ACACACTGAA GAAACTGAAT AAAACAGATG AAGAAATAAG CAGTTAAAAA  
AATAAGTGC CCTCCAAAA CACGNCCTCA TCCACAGCG CTCGCGAGCT TCCCACCACC GCGCGCTCA GTTCTTTTGC  
GTCGTGTGCC TCCCCAGCCC TGCAAGCCCT GGTGGCACT GTTGGCGCTG CATCTCTGTC TTCAGTGATG CCTCTTCTT  
GTTTGAANCA AAAGAAAATA ATGCATTGTG TTTTITTTAA AAGAGGTATC TTAATACATN GTATCCTAAA AAGAGGAGCT  
CATGTGGCAA TTGGTGACA GCAGGAGGAA ATTCTTTGGG ACTTNTTTAG GNTGAATT

SEQ ID NO:2216: (Length of Sequence = 428 Nucleotides)

GAACCCACAC TGGGGAGAAA CCATATGAAT GTAAGGAATG TGGGAAAGCC TTCAATTATT CCAACTCATT TCAGATACAT  
GGAAGAACTC AACTGAGAGA GAAACCTAT GTATGTAAGG AATGTGGAA AGCCTTCACT CAGTACTCGG GCCTTAGTAT  
GCATGTACGA TCTCAGAGT GAGACAAGCC CTATGAATGT AAGGAATGTG GGAAATCCIT CCTTACATCC TCACGCCTTA  
TTCAACATAT AAGAACTCAC ACTGGAGAGA AGCCTTTTGT ATGTGTTGAA TGTTGGAAAG CCTTTGCACT TTCTTCAAAT  
CTTAGTGGGC ATTTNAGGNA CTCACACTGN AGGAGGAAGG CCTCTGAAGT NTNAGATATG TGGGGNAAGT ATTTTGGGGA  
ATCCCCCAT GTCTTTAATA ATCCCAT

SEQ ID NO:2217: (Length of Sequence = 408 Nucleotides)

GTCATCAGAG TTCATCTGA ACACCTGAA TGCGGCTCG GGGGCTTGT CTGTACCAT TGATGGCCCC TCCAAGGTGC  
AGCTGGACTG TCGGGAGTNT CTTGAGGGC ATGTGGTAC TTACTCTCC ATGGCCCTG GCAACTACCT CATTGCCATC  
AAGTACGGTG GCGCCACGA CATCGTGGC AGCCCTTCA AGGCCAAGT CACTGGTCCG AGGCTTTTCC GGAGGNCACA  
GCTTINAGN NACATCCAG GTTCTTTGTG GGAGACTIN TACCAAGTCC TTCTTAAAG CGGGGGCTT TCAGGTTACA  
AGNTCCATT CCCCAGGT TTTCTCTCA AATNCCAGC AAAAGGTGG TTGACTNGG GCGCCCTNGG GNTTTTCCCA  
GGGCTTTC

SEQ ID NO:2218: (Length of Sequence = 316 Nucleotides)

TTTACAGAAT ATAGCTTAT TTATAGAATC TTACAAATA AACATTTACA GTCCACATA GTTAATTINC TTTTCTAAT  
TCTTCTATA CACCTGAGTT ATTTAAAAA ATACTGTGAT GGAAGTGCAG AACTGTAAAG GGAAATAAGA ACAATAAAT  
CCTAACCTCT CTGCAAAAA TCAGACAACT TTGTTTTTAA GTAGATGCC AGCATATTGC CATCTCTTTG GAAGAGGACT  
TACTATATC AGCTCTTACG NTACCCAAAC AGAGAAGCT TCTTTTAAA ACCCAAGGT AAGGGCCAG TGAAG

SEQ ID NO:2219: (Length of Sequence = 319 Nucleotides)

GGCTTCTGT CCCACAATT TCTCAGGTG GCGCTGGAC ACAGCAGCCA CCACAGTCCA GGCTGCGAG GCAGGGTGTG  
ACCTGCCC GGCAGCCACC CCTCCTGAG AAGAAGCGG CCTCGGAGG GGATCGTCT TTGGGCTCAG TCTCTCCTC

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CTCCAGTGGC TTCTCCAGCC CGCACAGCGG GGAGCACCAT CAGTATCCCC TTCCCAAATN TCCTTCCCGA CTTTTCCAAG  
GCTTCAGAAG CGGCCTCACC TCINGCCAGA TAGTCCAGGT GATAAACTTT GTGATCGTGA AATTTTGTTC AAGACACTT

SEQ ID NO:2220: (Length of Sequence = 343 Nucleotides)

CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA  
GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC  
CAGCGTCCCC TCCAGTCTGC ACGGGGCAGT CCTCTTGGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC  
CCTCTATCCC TCCCAGCACC TACTACATCG NCCINACAT CCCTGATTCC TGTGTATTG GGAAACTNIT NCCAGAGATG  
GAGGTCTCTT CGGAGTATCT CGG

SEQ ID NO:2221: (Length of Sequence = 373 Nucleotides)

CTCTGTCTCC CAGCCCGGAG TGCAGTAGCG CAATCTTAGC TCACTGCAGT TTTGACCTCC CAGGCTCAA TAATCCTCCC  
GCCTCAGCCT CCTAAGTAGC CGAGACCACA GCCTGCGGCC ACGACATCTA GCCAATTATT TGTTTTTTGT AGAGATGAGG  
TCTCACTGTG TTGCTCAGGC TGGGTAGGTG TCTAACTCCT AGGCTCAAGT GATCCTCCCA CCCAGNCTC CCAAAGTGCT  
GGGACTACAG GCGTGAGTCA CCGCGCCTGG CTTTGTITTA GGCATTCTTT TTCCGCAGCA TCTGTTACCA GCAGCCTGAA  
GNCATTCTTA TAAACAATTA TCANGGAAGA CACATGGGNC AGAGACCTTA AAT

SEQ ID NO:2222: (Length of Sequence = 197 Nucleotides)

GTCTCCGTGA ATTCCCCCAA ACGGTTCTT GAGGATGTGA AACCAACTTA TTGGGCTCAA TCCCATTTGG TCACAGGATA  
CTGTACGTAT CTNCTTTTCC AGAGATTGA TATCACCCAG ACACCGCCAG CATACTAAA CGTGTACCA GGTGTGCCCC  
AGTACACCAG CATATATACA CCCTGGCCA GCCTTTC

SEQ ID NO:2223: (Length of Sequence = 280 Nucleotides)

TTTTTTTTT GCATTTTITAG TAGAGACGGG GTTTCAGTGT GTTAGCCAGG ATGGTCTCAA TCTCCTGACC TCGTGATCCA  
CCTGCCTCAG CCTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGCGC CCGGCCAACT TTTTGCAATG TTTCTTTTAA  
ATTTCTCTAC TTTTAATTGT ACTTCTAATA CAGACACTTC TGAAATCAGT TTTACATTG CTGCAGCCTT ACCAATTGT  
AGANACTGTT TATGTGATGT TTGATTCTT CATTTATATA

SEQ ID NO:2224: (Length of Sequence = 388 Nucleotides)

GATTGCAGGC ATGAACCACT GCGCCAGTC GAGTGGTAAT ATTTTGAAAG GAAACCTTTT TCTGAGCAGG TCTCAAAAGA  
GAGGTTAAAA TACTGAGTAG ACCATGCTGT AAACAGATGT GCTGTTATTC GGGCTTTGAT ATTCCATTTA TAAAGCACAG  
GCAGAGCTCA GAGTAGATTT AATGTAACTC TGAAGGGCAC TAGGATTTIN AGAATGGTAA ATAAGCAITG GCTTCAACTT  
AAATTCAAAT CTGCATTGGC TTGTAATAAG AGACTAGCTT GTTACTGAAG CTTTNAAGCC AGTTGTTTTT TCCTATCTAG  
CTAGGAAAGT CCTAGATGGT ATCTACTTCC AATAAAAGGC TGTCTGCGC AGGCGCGGTG GCTCACGC

SEQ ID NO:2225: (Length of Sequence = 420 Nucleotides)

GGTCGAGGAG CCTGGGCGCG GCCGGGCGGG GACTACTCCG GAGTCAGGAG GCAGCAGNGG CGGAGGACGA GGATCTCTGG  
CAGTCAGCGC CGCTCGAGC CCGCGGCAC CATGGGCTGC TGCACCGGAC GCTGCTCGCT CATCTGCCTC TGGCGCTGC  
AGTTGGTCTC AGCAITAGAG AGGCAGATCT TTGACTTCCT TGGTTTCCAG TGGGCGCCTA TTCTTGAAA TTTTCTACAC  
ATAATAGITG TCATATTGGG TTTGTTTGGG ACCATTCACT ACAGACCTCG ATACATAATG GTGGACACCG ATCTAATGAC  
ATCAATATC TCTGTACATC GGTCACTGGT GAGAGAACAT GGGGCTGGT TGINTCAAGA AGAGTGTCTG CTTCCTCAA  
GCCCATGGC ANNGATGGAC

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SEQ ID NO:2226: (Length of Sequence = 264 Nucleotides)

GTACCTGCTC CCTGCCGCA CCTTNTTGG TGGATATTTA GCTGCCCTCT ACAGTGGTTA TAACATTGAA CAGATCATGT  
ACCTAGGCTC GGGTTTGTNC TGTTGCGTG CCTTGGCTGG CCTCTCCACC CAGGGAACAG CACGTCCTGG CAATGCACTG  
GGCATGATTG GGGTTGCTGG AGGACTGGCA GCCACCCTCG GAGTCTTAA ACCGGGCCCA GAATTACTAG CTCAGATGTC  
TGGAGCGATG GCTTTGGGTG GTAC

SEQ ID NO:2227: (Length of Sequence = 402 Nucleotides)

AGAGGATTGG GGCCTGGGG CAGGGGCGCT GGCACATTCC TCAGATTCTG GCATGTCATC CTGGAAGTAC TCAGCCTGGC  
GGTACTGCCA CAGACGAGG TTCCCGTCCC ACGAACTGCT GACAACTTC TCTTCAAAGG GGTGCCAACT GACGTCACGC  
ACACAGGCCT TGTGGTTGGT CAGCTTCTTC ACAATGTGGC CACTTAGAAG GTCTACACA ACCACTTTGC CAGTGGAGCA  
GCCACTGTAG ATGAAGTCTT GGCCAGTCT ATGAATGGG GAGAACCGGC AGCGGATGAG GGTGTGCAGC ACTCCGTGGC  
CCCGGTAGGT CATCAAGGAG CTGTCCCTG GGAGCTTCAG TTTCGCCAG GCTTTTITNG GGCACCTTCT GCCACCGATA  
GT

SEQ ID NO:2228: (Length of Sequence = 394 Nucleotides)

TTTAAAGTGG AAACAATGTT TTTAAGAGGT GATATAAAGA AATGCCCCCA CTGTAATCCC TACCATATGT TGATTCATG  
TGGTGGGAGG GAGGGGAGAA TGATTCCTTT TCTTAGAATC AGAGAATTG GAAAGTATCA AGAAAGATAA TAACAGAAAG  
CATGAAATAG AGTTGTGCTT TGAAGATGAA TTGGATGAAA TTTTATATG AAGAGGAGTT TTCCAAAGTT GCAGACCCAG  
GATTCCTGGC CAGAAGCATG AAAACGTTTC TTTCTTACTG TTTCTAGGAC CTAGGCAGCA TTTCTTCCAT GTCTGCAACA  
ACATAAGAAA CAACAGCCCA AACAGCAGCA GCAACATTCA TCTGCTTTGG ATCCCATGGA CAGTCATGGT GTCT

SEQ ID NO:2229: (Length of Sequence = 342 Nucleotides)

TTTTTTTITAG GATGATTGAG TGTTTCTTTA AAAATAAAAA CCCCACAAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA  
GTGTAACAGG TTAGCCATTA ACACAGAATA AAGAAGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCCAGCCT  
GGTCGGCCGA CGTCACAGTG GATGCCCTG CGTGGCTGGG ACACAGACAG GGAGCAGGCA TGGCACTGC GCCACGCAGA  
GCAGCAAGGC TGAGCATGAC CACTGGAAAT AAATAAACAT GGTGCCGACA GCATCTTTGA ATTAGTAAGA CGTTAGCACA  
AAACAAAAAA GCACAACGAC TG

SEQ ID NO:2230: (Length of Sequence = 357 Nucleotides)

GTGGAATGCA GCCATCACAC AGTAGTTTCT GAGATTGCTT CCGTCTAGGT TTTATGGGAA GATATTTCCT TTTCTACCAT  
AGGCTTCAAG GCGCTCTAAT ATCCGCTTGG AATACTACA AAAACAGTGT TTCAAAACCTG CTCTATCAAA AGGAAGGATC  
CACACTGTGA GTTGAATTCA CACATCACAA AGAAATCTCT GAGAATCTT CTGTCTGGGT TTATAGGAAG AAATCCCGTT  
TCCAACGAAG GCCTCAAAGC GGTCCATATA TCCACTTGCA GATTCTACAG AAACAATGTT TCCAACCTGC TCTATCAAGA  
GGAATGTTGC ACTCGGTGAG TTGAATGCAC ACATCAC

SEQ ID NO:2231: (Length of Sequence = 304 Nucleotides)

AAGAGACGAG GTCTCACTTT NINGGCCAGG TTGGTCTCAA ACCCCTGGTC ACAACAATC CTCAGCCTC ANCTCCCAA  
AGTGCTGGCA TTACAAGCAT GAGCCACCAT GCCCAGCTTA AGGGGATAT TTTTATAGAG CATCTTGCCC TGGTTCTGGA  
ATTCTCTGTA GATAATACAG TTAACAGATA TTCCCTAAG TGATTAGAA CCTTTCATT TGACTGATTT TNCAGAAAAG  
TTTACCTATG TAACCTCAGT GGGTAGCACA ATGCTGACA CATCTTTGNA GTCCAAATGT CTCT

SEQ ID NO:2232: (Length of Sequence = 354 Nucleotides)

464

CCTGCCACTG AGGCAGGTGC GGCCCCAGGA CCATCACCAG GAATGCNAGG CCACCCTGGA CCAGAGGTAG GAGCCCAAGG  
TCCGGCCCTT GCTCTTTGAT TGTTGGCAGC CTCCTGCCCT CTCTGGGTCT CAGTTGCCCC ATCTGCAGAG CGAGGAGGCC  
CGGGCTGGTT GGTCTTGAAG GCCCTTTTCC ATGCCGACAT CATGTCACTC TAGGCCTGGG GTTCAGTTTC CTGTGGCTGG  
TGATGCTGTG GTTAAGTTTG CTTGACCCCA GCAGCCCGAG GGACTGTCTG AGTCACAGCA CAGCCCCTAT TCGTGTGGCTG  
CTGGTGTGTG GGTCAATTC CAGCAGATGA ATGT

SEQ ID NO:2233: (Length of Sequence = 414 Nucleotides)

CCCAAAGCCC GCACGATGCA GGCCACTNCG ATTCCACCAA GATGGACTGT GTGTGGAGCA ACTGGAAAAG TCAGGCTATT  
GACCTGTTGT ATTGGCGGGA CATCAAGCAG ACGGGCATCG TGTTTGGGAG TTCTCTGCTG CTGCTCTTCT CCCTGACCCA  
GTTTCAGGTG GTGAGCGTCG TGGCCTACCT GGCCCTGGCC GCACTCTCAG CCACCATCAG TTTCGCGATC TACAAGTCTG  
TTTTACAAGC AGTCAGAAA ACCGACGAAG GCCACCCCTT CAAGGCCCTAC TTGGAGCTTG AGATCANCTT TTCTCAGGAG  
CAGATTGAGA AGTACACGGA CTGCTCTGCA GTTCTACGTG AACAGCACAC TTAAGGAACT NAGGAGGCTC TTCCTTGTCC  
AGGACCTGGT GGAT

SEQ ID NO:2234: (Length of Sequence = 394 Nucleotides)

ATAATCCGAG TGCTCCATCT TCAGTGCCAT CTGGACTCCC ACCAAGTGCA ACACCCINCA NITGTCCTTT TGGACCAGCA  
CCAACAGGAA TGTATCCCTC CGTGCTCCC ACCGGACCAC CTCAGGACC CCCAGCACCC TTCTCTCTT CCGGACCATC  
ATGTCCCCCA NCTGGTGGTC CTTATCCAGC CCCAAGTGT CCGGGCCCTG GCCCCACAGG GCATATCCTA CACCAATAT  
GCCCTTINCA GAGCTACCCA GACCATATGG TGCACCCACA GATCCAGCTG CAGNTGNTCC TTTAGGTCCA TGGGGATCCA  
TGTTTTNIGG ACCCTTGGGC GNCAGGAATN GGAGGGCAGT ATCTTACCCN GTAATATGGC NATATNCATN TNCA

SEQ ID NO:2235: (Length of Sequence = 376 Nucleotides)

CTGATATGAT GACAATAAG GAGTATGCTG CTGCTGTCC GCTTTGCGTC CTCGCTACAA ACGCCTGGTG GACAACATAT  
TCCTGAAGA TCCAAAGAT GGCTTGTGA AAAGTATAT GGAGAAATG ACATTTTATG CAGTATCTGC TCAGAGAAA  
CTGGATCGAA TTGGTTCTTA CTTGGCAGAA AGGTTGAGCA GGGATGTTGT CAGACATCGT TCTGGGTATG TTTTGATGTC  
TATGGAGGCA CTGGACCAAC TTCTCATGGC TTGCCATTCT CAAAGCATT AGCCATTGT AGAAAGCTTT CTTCATATGG  
TGGCAAAGCT GCTGGAATCG GGGGAACCA AGCTTCAAGT TCTTGAACA AATTCT

SEQ ID NO:2236: (Length of Sequence = 399 Nucleotides)

TGGCAAGAAC ACTGAAACCC AGCCAACCTC TCCTCAGCTA GGGACCAAAA CCTTTTGTG TGTAGTCTT CCGAGGTTGG  
AGACTCTTCT GCAGCCAAGG AAAAGGTCCG GGAGACATGC GGAGACTCCG AGGTGGAGGA GGAGTCCCA GGAAAGCGCC  
TGGACGCAGG TCTACCAAC GGCTTTGGGG GTGCGAGGAG CGAGCAGGAG CCGGGCGGCG GCCTNGGGAG GAAGGCCACA  
CCCCGACGAC GCTGTGCCTC CGAGTCCAGC ATCTCCTTCA GCAACAGCCC GCTCTGCGAC TCGAGCTTTA ATGCGCCCAA  
ATNIGGGCGG GGGCAACCG GCTCTGTGTC GACGGCACAC GCTTGGAGGA CCNAGTNAG CTGATCTTCT GCATCGAGA

SEQ ID NO:2237: (Length of Sequence = 234 Nucleotides)

AAANACTAA CATTTTAAAT ACAGTCTGAT CAGATCAATT CACATCACAA GGTCAACCG GGCTTGCTCA CATGTGCAC  
AACTGAGGNA CACAATGTCC CTACCTGCCG GCTGTCCAC CTCTCTGGT CCAACAGCA TTGAAACCCC CTACTTCCCT  
GACCAGACTG GCATTTTTTA AAATTTTGCA TAAACTATT TCTTCATAG NCTTCAAACA ATCAACTAGC CAAG

SEQ ID NO:2238: (Length of Sequence = 369 Nucleotides)

465

ATTTAAGGCT GTACTTAACT AATTGGGGCT GAGGATGAAT ATATCAGCCA CAGCACATTA AAGAATGAGC CAAGGATTTG  
TCATGGTTGG TCACITTTTTA AAGTATTGA TTACTGCAAC TGGAGAATGA AAAGTGATA TTGGTGACGC CAACCTCAGT  
TTCTGAGCAC TCCTGCTCTG TGGTGAGAAT CAGACAAAAA TTCATCGGGG TGAAAAAAA AAGGCATTAC CTGATTACACA  
CCCTTGCTTT GCTAGCCCTC TTCCATTTCAT TTCTCACACA GCACITTTGCT CTGTTAAATC CTCTCTCTGT CTCAGACCAT  
TGCTTGCCCC TTCAAAGGGT ATGGTTCAGG CTCCTTTCAA GACATTTGG

SEQ ID NO:2239: (Length of Sequence = 399 Nucleotides)

TTAATATAAT ATTCAAGTCT AGCATTTGCT ATTTACAACA AATAAATATT GCCCCCCCC AATCAGTAAA CAAACATTTT  
TTTTTCTTT TTGCTTTTTA TACAAATATT CAATCACCCC ACCCCCACCC CAAATCCTCC TTCTCTACTA ACCCCGCTCT  
TGCATGGTCT CGTAAAGCCC AGGACGCAGT GGTGAATGGC ACTTGCAGTG GCATGAGATT CAACATCGAT GGGACTCAGC  
TGGGACTGTC CTCCTCACC GGGTGCAGAG TCTGGTCCAT GAAGAGGGNT TCINTCTCTG CTCCCAGGGG AGGGCTGGGG  
TAAGCGGTGG GTGAGACTCC CTCCTCTCA GTTGGNCTG ATGATGGAAT CTFTNGTGA GCCTGAGAAA GGCTAGAGT

SEQ ID NO:2240: (Length of Sequence = 388 Nucleotides)

TTTTCAGAAT TCATCTCTGA CTTTAATGGC TTAAGCAAGA ACATGGTTTC CGTGGCTCCC OCTGGACTGA ATGCTGGAGG  
ATATATACTT CACAGTCTGA GGCTGGTCC CAGGAAGTGC AATCTAACAG GATGGCAAGT GGTTTTGAAA CATATAGATT  
TTCAGGATGG AAGTTTGATT CTTCAGATTG TGACTCATCC GTGGAAAATA AATGGTTTAG CACCTAAATC TGTATATTCC  
CATCAGTGGC TTGGCTGACT CAGTTGTAAA TAGGGTACCC TCCATCTGTC TCCCACCCAT ATGCTCCACT GTCCCCAGGG  
CCTCAGTCCC TGANCCCTAG GGGGATTGGA GTTGGCTGCT GGATTCATTT CCTGCAAGCA GGCTGCA

SEQ ID NO:2241: (Length of Sequence = 377 Nucleotides)

CTCCATTTTG TCCTAGTTAC TTTTAAGGTA TAAGCTGAAG TCATTGATTT GAGATGTTTC TNCTTTTCTA ATATAGGTGT  
TTAATGGTAC ATATTCTCC CTAAGTACTG CTTTAGTGGC ATCCTGCAAA TTCTGACATA CTGTGGTTCA TTTTAATTCA  
TTACAAAATA CTCTTAATT TCCCTTTTGA TTCTCTCTT AATTCATGGG TTAATTAGAA TTGTGTATT TAATTTCNAA  
GTACTTGGCG ATTTATCTCT CTCGTATTAT CATGCTAAT TTAATCCAG TGTGGTCTGA GAATATATTT NGATATCAAT  
AAAGCTACTC CAGCTACCTT TTGATTAAAT TTATCACAGT ATATCTTTTT CTATCCT

SEQ ID NO:2242: (Length of Sequence = 381 Nucleotides)

CCCACATTAA CCAAACACAC ACACACATGA CAAACTCTAA GTCTCCAGAC AGACACCTTC AAATAGGCAC TTGGTGTTTT  
CAGCTGGGGG CTGGAGAGAT CTGGGGCTTT GGCTCCAAA GGNAGGAGCT GCTGTCCCA GAGAGGAGAC AACAGCTTCT  
GGAGGCTCTG GGGACTCATT GGATGGGTAC TGGCTAGGTA GATGGGAAGG GGGCCTGTTT AAAGAAGACC CCCCACCCCC  
ACTGCCATT TCACCACAAC AGTGACTTGC TGAAGTTTT GTGCCCTGCG GATTTCTGAA TATAGTGGAC AGGCATTTCT  
AAAGAGCGCA TCACTGAAGG GGCAGAGGCT NGCCTTTAAA TGTGGGCTTT GCATGTTTTG G

SEQ ID NO:2243: (Length of Sequence = 359 Nucleotides)

ACCATTTATT AAATCAGACT GTTATCTTA ACAGTTATGT AAGTTACATG TATGTTAAG TCAGAGTATT TCACATGGAA  
AAGTTTTTAA CTCCTATAGG CAAGCAAAAT CATATCACAC AATATATAAG TGGGAAGGG ATACTGCTAA ACATTCAAAT  
AAGGCAAGTA TATAAAACCA ATAAACAAT AATGAAAAA TTCAAGCAAT CCTTTAAGAG AATTCAACAC TACAAGCTAA  
ATGTACTTTC TGAGTGTATT CGTATAATCA AGGCAGTGT TCTCCTTTTA AAACATCAGG AAATGGAATA AGGCTCATTA  
GTAGATACAG CTGCCCTCAA GATTTCATTT TCAGTTTTC

SEQ ID NO:2244: (Length of Sequence = 362 Nucleotides)

466

ATATGTACTA CATTGGTGG AATACGCATG TACAATTCTT CAAAAATAGT AAAGAGCAAA ACAAACAAA AATAGTAGAA  
GCACTGGAGA AATACACTAT GGCATAAACT AGTTACGGGT GGGATGTCAC ATGGACCATA TCTACACTCT GTGGCAACCT  
TCTTACCTGA CTCCAAGGA TCAGATAATC AAACAGGAAA TTATGGTAGG AAATCAGAAA ATTGAAGTAT GCATTTCATAT  
CCTAAGCATT TTATTTTATG TCAAAATATA AAATATTTCAT CAGTTAGCCA AGCTTTGGGA TGAGAGATCA TAGCCTCTCT  
TTTGATAGGN GTTCTTGTT TTCTTGATTT CATGTTTCAG AG

SEQ ID NO:2245: (Length of Sequence = 333 Nucleotides)

AAGGATCTGA GCGAGTTCAG TGTCATGTG GGCAACGGG AGATTAAGCT GCCAGTGGAG ATCAGTGGG CCATOGAGGA  
GGAGTTCAT GTGGCCGAC TCTACATCAG CAAAATCAAA TCAGAAGTCA AGTCTGTGGT CAAGCGGTGC CGGCAGCTGG  
AGAACCTCCA GGTGGAGTNT CACCGCAAGA TGGAAGTINAC CGGGCGGGAG CTCTCATCCT NCCAGCTCCT CATCTCTCAG  
CATGAGGCCA AGATCCGCTC GCTTACGGAA TACATGCAGA GCGTGGAGCT AAAGAAGCGG CACCTGGAAG AGTCTATGA  
CTCCTTGAGC GAT

SEQ ID NO:2246: (Length of Sequence = 347 Nucleotides)

AAACTAGCTT TGGTGGGAAC TCCCTCACC CTGCTCCCA CAGGAAGGCA TTAATCTATT TATGAGGGAT CTACCTGCTA  
TAACCCAAAC ACCCCACCAG CCCCATCTC CCAACACCAC CACACTGGG ATTAATTTTC AATGTGGGAT TTGAGAGGA  
CAAATATCCA AACCATAGCA GTCTTAAAGT ATTTAAATTA GAATTTAAAT TAAATTTAA ATTACAGTAT TTAATTAGA  
ATCATTTGTG GAGTTTCTAA AAGGTATGCA TTCTAGGCC CCTCTCAAGT TAGATTTATG GACACTGATC CCCAGTCTGG  
AATTTTAAA CAGCAAAATC TCATACT

SEQ ID NO:2247: (Length of Sequence = 357 Nucleotides)

CACAGGACAT GCTCCGTCAG CACAAGCACT CCCAAGTCAA TCTGAAAAGC AGGCAGCAGC ATTGCAGGG ACAGGTCCTC  
CCCTGATCTG GGTGGTGGT TTCTCCCACT TAAAGCACTA TATACAGGG GAGGTCCAG GCTGGACATC TTTACCAGGG  
GCTGGGAGAA AGCAGGCCGT GCTCTGTGGT CTCAGAGTCT TCCTGGCGCT CTTTGGAAAC TGACAGAACA TGACCTCAGT  
CCCAGCCAGC GAGTGGCAGA GAGGACTTTG TACTTGGCTG CAATAAAACA TGCCCTTCTT CGCAGAGACA CGAACAATCT  
CGTCTCTACC AGAGGCCTGT GAGACATCAG CTCAGGA

SEQ ID NO:2248: (Length of Sequence = 327 Nucleotides)

TTCTCTTAT TAATGGCTAG AAAGTCAGGT TCACCAAGG AAGTCACTGA GGGCCACAG CATTGAAGGG TATGGGTTT  
GGAGAGATAG GAGCAGGACC CACCACTCAC GTCCAGAACC CAGGGGCAC ACCTGGTCCA AGAGGTGGAG GCATTGGTCA  
CTGGAGTCAC GAGGGTCAG ACAGGCACTG AGAGGCTGAG GGAGTNTCGG TCCGGAGGGA GGCAGTCAG GGCTAGGGCT  
GGGAGTCGTA GCCAGTNTGC AGGGCCTGG AGCCCAAGG CTGATGCCCT GGGCTGCGT AGTACTCCAC CACCTGCCGT  
GGCACCT

SEQ ID NO:2249: (Length of Sequence = 404 Nucleotides)

ATTTTAAATT TAGGTTTGT TTATTTAAGT TTAATGTAA TTCCATGCTG TGTTTCAGTA AGAACAAATAC AGATTCTGTA  
TCTGTGGCTC CAGTCAGATA TCCAGTAGTA CAAATAGCT TCAAGTTACA CATACTGAAC AAAAGAGGTT GAGCGAGCGA  
AGGAGGGGAG GAGTGAGGG AAGGAGGTAG GGGAGGGGG AAGGAGAAGA AACAAAAGNN TTGAACAGGC ATGCAGGCTT  
TTCCATACCA CCTTCAACGC TAACCTGCTT CAGTGGGAGA GTAAAGTAGG CAAGANTGAG CAGCCACGGG ATTGTTGAAC  
TGTTACCCAG CACCATGCTT TTCAGCAACA TTTTCAGCG AGTTTGGGAA CATTTTTTTA CCAGCAAAAA CCATTACACC  
GAGT

467

SEQ ID NO:2250: (Length of Sequence = 275 Nucleotides)

TGCCAAATAT ATATATCTGA ACATAGTGAA AAAGTAACAT TTAATAATCAG TCAATTATT TTTAAATTC CTTGCTTAA  
TAGCCATTAC TTACTCACCT TTGTGTTTTG TTTTTCCTT CAACTACTAG AGTACTGTAC TTTTGCTTTC ATTCTTCTA  
TACATTCTGC CTTTATCCTT AAATTGTTC ACTOGATAGT GCTAATATTG GTAGATAATC TACGCTAGCT GCTGTTTCTT  
GTACAGAAGT TGGTTGATAT CGCTGATTC CTTT

SEQ ID NO:2251: (Length of Sequence = 426 Nucleotides)

GGATAAGGA GATGAGAGCA TGCTCTGCCA ACTGGCTGGG ACCTGAATGT GCTAGGCAAG TNCCACTACA TCAGCTCAAG  
AACATAACA AAAATGTAAT TTAATAACA GATGGTTTAA AAAATATCT GATAAAAT ACCTATCCCT CTCCTTGCT  
GTGAAATAAT TTAATAAAT TATCTAGAT GTAAAAATA TAATACAAA AAGTTGTTC AAAGACACCT GTGTCTGTT  
TGTTAAGTGT GCAGTCTGGG TCCCTTGGGG TGGAGGGAGC TGGCCAAGGA ATGGCAATTGT GCAGAGGCAT ACCGGGAAGC  
TCTCTGGATG CAACCCACC TCTACCGCTT GGCAGTCAAT GACCTGGGC ATGATGTTT TTACTTCTC TGAGGGCTAG  
GGCTTTGATT CTGAACATGG GGGCT

SEQ ID NO:2252: (Length of Sequence = 315 Nucleotides)

GAAAAGATAA ACAAATTA TAGACCATTA GTGAGATTAA CCAAGACAAC AGGAAAGAAG ATCTTAATAA GCTCAATTAG  
CAATGAAATG NGAGCTACTA CAACTGATAC CACAGAAATA CAAAGATCA TTCAAGGCTA CTATGAACAC CTTACGTC  
ACAACTAGA AACATAGAG GAGATGGATA AATTCCTGGA ATTTAAGAN TAATACAATG GACTTTGGGG AATCAGGAGA  
AAGGGTAAGA GTGGGTGAG GGATAAAGA CTACACATTG CATACTGT ACCTTCTTG GTTGATGGGT GCGCC

SEQ ID NO:2253: (Length of Sequence = 335 Nucleotides)

AGATTTATTC TCATGTACAA AGCGGTGAGC CCACGGGACC ATATACGACA GTTGACAGA GTCTAGAAA AACGCATCTN  
TCTAAGGCA ACTCAGAAAG GTAAGGCAGG TGGACCCCT CCCCCACCC ACAACGCACA CAGAAAGAAA CCGAGAAAAA  
GAGAGAAGCC AGTGGCCGGG CTGACCCAG AGTCCCGGCC CTATGGGGTC TCCCAAGCCC CAGGGCACAG GTGGATATGG  
CCTTGAAGAG AGAGCCCTGC CAGGGCINAG GCCAGTCTC TCACTGGCTG CAGGAATNG TAAGGGGCTC AGGCCAAGGG  
GAACACTTCA GGGG

SEQ ID NO:2254: (Length of Sequence = 380 Nucleotides)

GGAGGGCTCT GGAGAGGTTT CTGAGGATT ACITTGATGG CAATCTGAAG AGATACCTGA AGTCTGAACC TATCCAGAG  
AGCAATGATG GGCCTGTGAA GGTAGTGGTA GCAGAGAATT TTGATAAATA ATATACAATA ATCACATCCA CTTTCCACCA  
CCTACACAAA AAACATTTC TACAGACTGC AGTACAGTGA TTTTITTTTA TGAACAAAA GGTCAAAAT GTTTCATTTT  
CTCTCTGCA GATTCTAAGT AAAAAATGAC AAAATATGCA TAGAGATGTT TGTAAACCA AAATAAATGT CTAGGGCCCC  
GAACCATCT GAATGGGACC CCTCTCTCA GCCAAGGCA TTCCAAAT AACCTGCAA

SEQ ID NO:2255: (Length of Sequence = 399 Nucleotides)

ATATAAAAG TGTTCGTG ATTCTNCAGA GCCCAGGAGT CAGTGTGGT GGTGGAGGG ACCTGCCCC ACTGGTTCAT  
TTAACCTCT GTCTCGTGC CCTCAGAAC TCAGCCAGAA AGGCAAGGAG GAAATCAGAG CAGGAGCTC ATACTCTTG  
TGATCTATC ATCTGTGAC CTCAGGGGTC ACATATAAG TCAGTGTTC TGTCCCGC CGGATCTGCA CTGCCAAGT  
GGATTGGGT CGAACAGCTT CATAACATC TTCAGCATTT TGTACCATCT GCTCCCCAAT GGCCAAATC ACATCACCAG  
GNCAGACC CAGCCCGGTG TGCAGGGGAG CCCAGGATGA CTTTATGGGA TGAGTACANC ATGCTGAACA TCGGNAAG

SEQ ID NO:2256: (Length of Sequence = 371 Nucleotides)

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TTTTTTTTTT TAACTGTAAA TGCTATTTTA TTTTAAACAT TTTTGTFTAC AAAAAAAAAA AAAATCAATG ATTGGTACCT  
 TTTTACACT CTCAGATTCC TGAATATGGA CAGATCTTCA AAGGGAGGAA GGAGTTCTCA TATGAAATTT AAGATAGACT  
 GTCTGAAGG TTGTGGGGTG GGGTTTTTGT TTGTGTTTAA ATTCTCTTTT GTTTTTAAGN CACAATAAAG CTAAAATGTC  
 AAGTCTCTGG GAGAGATCCC CTTAAAGTIT CAGTCAAGGA GCATATCAGA GCACAGACAA GNGACCCCA GCTTGGTGCC  
 CGCCGGCCCG TCCCAGCTGC CCAGGNGTAT TTGGTAGCGC ATGGGTGAG A

SEQ ID NO:2257: (Length of Sequence = 372 Nucleotides)

AACCTCTATGG CACTAATGTA TGATGGATTC ATTTCCAGAC TGTCGGCCAC GGAAGCACIT CTTCATGGCC TCTGCCCTGG  
 ACAGCAGCCT GTCTCCGGG CTCCCATGT TTTTACCAGC TTCTGCTGAG TTTCTACAAT CTTGAGCTCT GCTGAGAAAT  
 CTTTCTCTTG AAATCTCTCT ACCTAAAGCC CCAGCCCCCA AAAGAGCATG TCTCAGGAAC TCATTATGCC CTGAGTCAAC  
 AAGAACTTGT TGATAAATGG CTTAAAAGTT TTTACAAGAA GTAACCTCCC TTGGTAAGGA GTAAATAATA GCTCTGGGAA  
 TTTTCCAGAT AAAACTATTT CATTTCTCTG GTCAGTGGCC CCATGGGGAG AG

SEQ ID NO:2258: (Length of Sequence = 340 Nucleotides)

CTCAGCCTCC TGAGAACCTG GGATTCAGC CTCCCGAGAA CCTGGGATTG CAGGCACCTG CTGCCATGCC CAGCGAAGAT  
 TTGTATTTTT TAGTGGAGAC GGGGTTTCAC CATGTGGCC AGCGGGTCT CAAACTCCTG ACCTCGTGAT CCACCCGCT  
 TGGCCCCCA AAGTCTGGG ATTACAGGG TGAGACACCA CGCTGGGCT TTATATATAT TTTNAGAGAG GGGTCTCAT  
 TTTNTGCCC AGGCTGGTCT TGAACCTCTG GGCTCAAGCA ATCTCCCGC CTCAGNCTCT CAAAGTCTG GGGATTACAG  
 GCAATGAGCC NACCGTGNCC

SEQ ID NO:2259: (Length of Sequence = 394 Nucleotides)

CCCCCAGAT CCCACTGTTA GGAGAAGCC TCTGCTAACA TTTTCTCTAT CTGTATATCC TCTGGGAATG AGACCCACTA  
 AAGGGCTAGA GTGTGTCTCA GTGTGAATTC CTCTTTCTCG ACTCCATCTT CGCGGTAGCT GGGACCGCCG TTCAGTCCGC  
 AATATGCAGC TCTTTGTCCG CGCCAGGAG CTACACACCT TCGAGGTGAC CGCCAGGAA ACGGTCCGCC AGATCAAGGC  
 TCATGTAGCC TCACTGGAGG GCATGCCCC GGAAGATCAA GTCTGTCTCC TGGCAGGCGC GNCCCTGGGA GGATGAGGCC  
 ACTCTNGGCC AGTNCGGGT GGAGSCCCTT ACTACCTGG AAGTAGCAAG GCGCATGCT TTAGAGGTAA AGTC

SEQ ID NO:2260: (Length of Sequence = 359 Nucleotides)

TTTTTTTTTG AGATCTGAGA TTCTTTAAT CAGAAGCAG TGCGTCCAC AGTGTGCTCT TCAAGCCCCA AAGGGCACGC  
 CTCTAGGACT GCNTCCTTAG AGCGAGGCTC GGGCTCTTGG TAAAAAGCA TTGCTTGAT TTTATTTAAA CAATGGTGAA  
 TCTTCAAGGT GCCAGTCTAC ATGCCCAACA GTCTCCAGG NTTCAGGNC ACAGTACCG TCACTCAGAG ACTGCCTCAT  
 TTAGCAAGAG AGAAAAACAG TGACCACCAC AGAGGGCAGG GAGTGACAAA GCTTGTAGGC TAATGCTGCA AAAGCCGCTA  
 GAAACTGGGG GCCACACACA AGNGCCANC AGGTGCGCC

SEQ ID NO:2261: (Length of Sequence = 360 Nucleotides)

TTTTTTTTTT GAGACAGAGT CTCGCTCTGT CGCCAGGTG GAATGCAGTG GTGTGATCTC AGCTCACTGC AACCTCCGCC  
 TCCCGGGTCC AAGCAATTC TCTGCTCAG CCTCTGAGT TGCTGGGACC ACAGGCGCAC GCACCAGCC AGGCTAATTT  
 TTGTATTTT AGTAGAGAG GGGTGTACC ATATTGGCCA GGCTGGTCTC TCGAAATCT TAAATCCAAA CATTTCTATT  
 CTCTAGATC CCTGCTCAG GCGAATCCTT TCATCTTCC CTTATAGCTC ATCAGCATGT AAGTGTCTG ACATCTCTCT  
 TCTCTTCCC TATTAGCTCT CTACTCTCTN CANTTACAG

SEQ ID NO:2262: (Length of Sequence = 348 Nucleotides)

469

CTGTCAAAAA TGTATTATAT CAATAATTTT ATCAGCAGCA TTTAAGAAAT AAGAAATCAT TAGACAATAG AAGACAAACA  
 TGGTAATGCA GTCAGGCCAG CACACAATAC ACOGTITTCA TCACACACTG TAACCTGAAT CCCTGGCAAT TTCTAGAGG  
 TATTAAATC ATACCTTATT AAGAATTATT GGCCCCNAGG AGTNGGGGGG TGGGGGGGTT GCAATCTGTC CAATCAACAT  
 CTGGCTCTTA CTTTCTCCCN GTAGTATTAC ATTTGTATAA TATTCTTATA GGAAACAACT CAACTCCATG TTTATAAAAG  
 CACCATACGG TTTTCCATC CTGTACCA

SEQ ID NO:2263: (Length of Sequence = 352 Nucleotides)

CCCCAAAAGT TGACATGGTC AATGAAGAAA TAGGCAAACA GCAAAAAGTT GCAGTCATAC ACCAAATGAA AGAAGATCAA  
 AGCAAAATCC CTGAAGGAAT CCAAGTTGAC TCTGACGGGC TAATCACCAT AACAACTCCC ANTAAACTTG CCACGCTCAG  
 TGTTCGAGCC ATGCCCTTC CAGAAGAAGT CACCCAGNTT CTGGAAGAAA ATAGTGANIT GATTCGTTCT ATGGAGCAGT  
 TGACATCCTC TTTGAATNAG GGTGAAATA CTCACATGAT TCATCAGAAG ACCCNNGGA AAATTINGGA ATTCAAAGGA  
 AAACITTNAG CAACANCTAA CAGGNGNTG AT

SEQ ID NO:2264: (Length of Sequence = 381 Nucleotides)

GCTTACAGTC TAGAACAAGC TTTTCCAGCC CACAGCCAG GATGGCTTTG AATGTGGCCC AACACAAAT CATAAACTTT  
 CCTAAACAT TATGAGATCT TTTGTGATT TGTGTTTTAG TTCATCAGCT ATCATTAGTG TTAGTGTAAT TTGTGTGTGG  
 CCCAAGATAA TTCTTCCAT GTGGCCAGG GAAGCAAAA GATTGGACAC CCTGGTCTA GAAGGAAAG CAAATATTAA  
 ATAACCTCAG AAAGTGATAT TACAAATGT GGTGAGTTAT AAACACACTA TCAGGTGITA TAAAGGAAGT GAAGGAAGTG  
 GTGAGGAAT TCTTATCAG GNAGTGATAT TINANTGAAG GGCCTTAGGG GATGAGTAGG G

SEQ ID NO:2265: (Length of Sequence = 301 Nucleotides)

CACTCTTCTT CCACTCTGCC TTTCACAGC AGTCAGTCTG GTCCAAGCCA CCATCATCTG TCACCCAGAC TACCATAGCC  
 ATCTCCTAAC TGGTCTCC ACTTGCCGTC TTTATCTGC ACACAGCAGC CTGAGTTCAT ACACACAGT GCATTCATC  
 ATATTTTGT TAAACTGT CAATGGCTTC CCATGGAAT TGGGAGTCTG GATATCTCA CAAGTGTGTA GCATGGCCCA  
 GGACCAATCT GGACCCCTT NCTGTCTGT NCATNCATGC CTGCAACCAC TTTTGGCCT T

SEQ ID NO:2266: (Length of Sequence = 360 Nucleotides)

CGCCTGCATG CCCACAACA ACACAACTTT ATTCTCTCC CAAACATCTG TCAGGCCTGG CCTTCTGAG CAGGAGCTGA  
 GCAGGAACAG GGCCTGGCTG CCTCTCTCT GCCACAGCTC TGACCTGGGC AAGGCTGGAA GCTGGCATCG TAATGGATGG  
 GGGAGTGGGT GGAGGATCTG AGGGTCCCT GGGTAGGTTT CGATACCTTG GACAGGTGGG CCTCATCTG ACTTAGAACT  
 CGGGAGGGG CCACCTCTCC TTCCCTCTCT TCACAGCAGCA GCTCCACCAC CCTCCACCTT CTGTCTCGA CATGTGATCC  
 AGAAAACCA GCCATGAGG ACGCTNIGA GGAAGGTCT

SEQ ID NO:2267: (Length of Sequence = 391 Nucleotides)

GATGGAGTCT CGCTCTGTC CCCAGGCTGG AGTGAGTGG CAAAATCTCG GCTCCGGACC CCCCCAGAC ACATATGACC  
 CACCAACCA TCTCTGACCA TGAGGCCACC CTGAGGTGCT GGGCCCTGGG CTCTACCTT GCGGAGATCA CACTGACCTG  
 GCAGCGGGAT GGGGAGGACC AGACCCAGGA CACGGAGCTC GTGGAGACCA GGCTGCAGG GGATGGAACC TTCCAGAAGT  
 GGGCGGCTGT GGTGGTGCCT TCTGGAGAGG AGCAGAGATA CACCTGCCAT GTGCAGCATG AGGGTCTNCC CAAGNCCCTC  
 ACCTGAGAA TGGGAGCTTG TCTTCCAGC CCACATCTCC CCATCGTGG CATNATTGCT GGNCTGGTTC T

SEQ ID NO:2268: (Length of Sequence = 191 Nucleotides)

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CTTTCCTCTC CTGTTACAC AGTATTCGAT TATTTCATG GCTACTTTCA GAGGATCAGC TAGAGGCTGA TGTGTGTTT  
CAATGGTTAT ATTATTTATG AACTGAGAGT AGAAGAAAAA TTTGAGAGCA GGTTTTGGGA AAAAATGAAT TTAGACAAAT  
ATTTAGTAAC TGTATGATAT ATAACCCCC N

SEQ ID NO:2269: (Length of Sequence = 237 Nucleotides)

TAGAAGCATT TTTTAAACAA CACTCAACTT TGTGAACCCC TGAAGATTTT TTGACCGTTC CAAGTCTTAA TGCCACACCA  
CTATCCAGC GAATTTATGC TACAACGGT AACAAAGACC AGAAGCCTGA AGAATTAAAA TGCCAACACC AACCTTTCC  
NTACCAGCTC TGGNCTATAT TGCTCCCATG CATTTAATAT ATTATNINGT TTTATANCCA CTCTAAATA TTCTCAG

SEQ ID NO:2270: (Length of Sequence = 223 Nucleotides)

AAAGGTTAAG GAATTTCCCTT TATTTTTTAC AAATTAAGAC TATGCAGATT TCATATATTT CTGAATCAAA AACACCTTTG  
TCTTCACAGT ATGAGTTAGA ATGCAGCCTG AGCTGAAAAT CAAGAACTA GAAAAGAAAG TGGTAGAGAT AACTATATTA  
AAAANCTGTT AGGTATTTCC TTTAAAAGTA GGTGTTTTTT TTTTTTTNCC NCTTTTTTTT TTT

SEQ ID NO:2271: (Length of Sequence = 363 Nucleotides)

TTTGATGGGT GAGGCTGGTA GAGCCACTGG GAGAATGTGG GGCAGTGAGG GGAGGGACAT CTTCCTAGCA TCACCAGCAT  
CCTGAGCTTT GTCTTGTTT GGGAGTCCCA CAAGGGCTGG TGCAAGGNIT AGCAGCTGCT ACTTGAACCC TAATCCCTGG  
GTGGATGTGG TCTCTGTAA CTTAAGAGCA AATGTTTGTN ATGACATGCA CGGGTGGGCA GAGGTTGAAA AGAACAGGGG  
TCTACGGAGG AGCCAGGCCA GCCACGTGAG ACCCTTCTTT CTAAGTTGGC TTCCTGTCCA TTCTGGGGA TTNGGGGAAA  
GAACGACAGA ACTTACCTTC CATCTTCTT CTCACAAGCA GTG

SEQ ID NO:2272: (Length of Sequence = 150 Nucleotides)

CTCCCCCTGT AATCCAGCG CTPTGGGAGG CCGAGGCGGG GGGATCAGGA GGTCAAGAGA TCGAGACCAT CCTGGCCAAC  
ATGGTGAAAC CCCGCTCTA ATAAAAATAC AAAAATTAGC CGGCATGGT GACGTGCACC TGTAGTCCCT

SEQ ID NO:2273: (Length of Sequence = 330 Nucleotides)

TATATTATGT TAATAAATC ATGTATAAGC AAAAGACCTA TGAAAGTATA AAACAGACCA ATGGATTTTA GTATAAAGT  
ACAAAACGTT CATTGAGGTG GGTCAGTTT TCCACAAAA ACTAACCTTT AAGAACTAC CACTTATCAA GTTTTGGTAT  
AAGGTATAAT ATGAAAGANG AAAATCCATA ATTATTTGAA AAACAGNCT TAAATACCTT CCTTTTTTCC TACTACATAT  
CTCTATTAGG CTGGGTTTTC TTCACAATA ATTGAATACA AAAACAAATA TGAGNATTTA GCTGTAATCT ATTAATCCCG  
ACATTACAGG

SEQ ID NO:2274: (Length of Sequence = 372 Nucleotides)

AAAAAGCCAG TTGCAGTGGT ATATGCCTAT TGTCCAGCT AATCAGGAGG CTGAGATGGG AGGATAGCTT GAGCCCAAGA  
GTTTGCGACT GGGCCTGGGC AACATAGCAA GACCTATCT CTAAATCAAT CAATCAATCA AACAGTGGTA TGCCACCCAG  
AATAAGTATC TTTTGTGAAG TAAAAACAA AAAGCGAAAT GGAACAACA GGCTGGTAG TGGTGGCTGT CTGTCACTGA  
CAATGAGGTC TCTGCAGAGC CGTCCCTAC CTNCCCAAC CCCCTAGACA TCAGGTCCCT TTCCTAGGAA AATGAGAGCA  
CAGACCTAGG NCCATGGNCT CCCAACTTT TTCTTCTCTT CACTACAGAT TC

SEQ ID NO:2275: (Length of Sequence = 370 Nucleotides)

CTTATCTTT TCTGAGGAT GTTGGTTTAA TATGGATTGT CTTTAAGCAT CACTTGGAAA CGCTACAAAT AATGAGCTA  
AATGTTAAG CAATTAGGAA ATAGGAATTT TTAATACAG AATTTGCAC TGCAGAGTGT TTACAAGTAT TAAAGATTG

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TATTACACAA CTGTGTGTTAA ATTCTAGTAA GATAAATTGA TACTAAAGAA AACAAACCCA GAAAGATCAA GTGACTTGNN  
 TCACACAACA CAGGNATTAA GANGGAAATT AGTATTCTTT GTTGGAAATAT TTTCCATTG AATAGTTACA GGAAATTTA  
 TTTGCATATT TTACAAATTA AATGTGTATT GGACATCATA GTGGGGAAAT

SEQ ID NO:2276: (Length of Sequence = 349 Nucleotides)

TCTCCAGGTC CTGGAGGCAA CCGCAGAAAC AGAACANIGC AAATGCCAGC ATTTCCGAG ATAAGCGTGG CCGCCAGCT  
 GCAAACACCC CTGACATGCA GCGTCTGTT TAAATCTGG TTGCCCGCTG CAGCCAGTGG AGCTCAGAGG GCTGCCTGSC  
 GGGTAAGGAC TCCAGGCACA CAGCAACAAG TGGCTGCAC CTCAAATCCC ACGTGAATA TGATGGGGTC CGAGCCAGCC  
 AGTAACTCCA NGAGGGCTGT AGTGTGTAAG TTCGGCCAGA GTTINCAGAT ATAATANCAT TGGCCCCACG ACGTAGACCT  
 GTGGCGGCTC AGGGITAAGA GACGGGAGC

SEQ ID NO:2277: (Length of Sequence = 182 Nucleotides)

CTTTATATAG ACTCTGGTTC TAGAACTCG CCTGCAGCCG CTGGCTGGAC CAGCACACGC TGACGGGGCC GGACTATTTA  
 CAGGCCCATT GCGGGCTGTA CCTTGGCCAC CTNCCGGCAC GGTGCTCAGC TGTGACNCA AAATAAGTTA GGGCCGGCCG  
 GCGGGGCGG GCGGGGACG GG

SEQ ID NO:2278: (Length of Sequence = 276 Nucleotides)

GTATTATTTT CCCCAAATGA AGCAAAGCAA GTACTGGGGC GGAGTCATCA GAAATACCTT GGGAGGTGGT GGGGAGGGGA  
 GTCGGGAGCA TCAGGGAAAA CCGATCTCAA CTCACGCTC TCAGGGGTG CGACTGGAAA NICTTGCGTT TTCCATCACT  
 GGTGCAGAAA GAACCTCCCC AGGAATGGCC AGTGGCCTTT CGCCGTAAAC AAGGNCAC GCTCAGAGCA GTCTCTCTCC  
 TGGGCTGGGT GGACCGGAG GCGGAAGGA AAGCCT

SEQ ID NO:2279: (Length of Sequence = 193 Nucleotides)

TGCACCCATG GCCCCCTCA GAGCCCCAGG GCCCCTGAGC AAGCAGGGCT CTGGCAGCAG CCAGCCCATG GAGGTGCAGG  
 AAGGCTATGG CTTTGGG GAGATGATC CTTACTCAAG TGCAGAGCCC CATGTGTGAG GTGTGAAACG GTCCCGCTCA  
 GGTGAGGCG AGGTGA CTTTATGCGC AAG

SEQ ID NO:2280: (Length of Sequence = 401 Nucleotides)

GTGATTTTCC TGTCTCGTC TCTGAGTAG CTGGGATTAC AGGTGCCAAC CACCACGCC AGCTAATTTT TGTAGTTTTA  
 GTGGAGACGG TTTGCCATG TTGGCCAGGC TGGTCTGAA CTCCTGACCT CAGGTGATCC ATTCGCCCTG GTCTCCAAA  
 GTGCTGGAAT TACAGGCATG ACCCATGCG CCGGCCCCA CTGTTTCCTT TCTAATCGAG TGAGAAAATG GTCAGTATTT  
 CTGTCAACAA AATTCAATGAG GCTCTTTGTA CGCACAGGAC TTCAGGCTT TCTCTCAACA ATCGCCAAAG CTGGAGGCAT  
 CCACAATGGA GNAACAACCT GGGGTTTTG AAAAAACAGG GAATGTTTC AGAATTNTT TTCAAGAGTA TTTACATTTT  
 T

SEQ ID NO:2281: (Length of Sequence = 217 Nucleotides)

AGCAGGGGA TTGTCCAAGG GTCTCCGGC GCCCAGGCA GTGGTGGTGG CAGCAGAGT GCCACTATG CAGTCAACAG  
 CCAATTACN ATGGGCGGCC CCGCATCTC CATGGCGTCG CCCATGTCCA TCCGACCAA CACCATGCAC TACGGGAGCT  
 AGGGGCGCG CCGCGNAAC TNACAGCAC AGGAAACCA ATGNATGTCC CTGCCCC

SEQ ID NO:2282: (Length of Sequence = 302 Nucleotides)

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CCGATGGTGA AGTGGTAAGA GGTCGATGGC CTGGGAGTTC ACTTTATTAT GAAGTAGAAA TTCTGAGNCA CGACAGCACC  
 TCCCAGNITT ACACGTGTAAA GTATAAAGAT GGAACAGAGC TTGANITGAA AGAGAATGAT ATTAAGNCTT TAACTTCCTT  
 TAGGCAAAAG AAAGGTGGCT CAACCTCCAG TTCCCCTTCC AGACGCCGAG GGAGTCGATC AAGGTCACGC TCCCAGATCCC  
 CCGTTCGACC ACCTAAAAGT GCCCGCCGAT CTGCTTCTGC TTCCACCA GGGCGACATT AA

SEQ ID NO:2283: (Length of Sequence = 314 Nucleotides)

GA AAAAGTGG AAGTCATCAC CGGGAGGAG GCGGAGAGCA ATGTGTTACA GATGCAGTGC AAGCTGTTTG TTTTGACAA  
 GACCTCACAG TCCTGGGTGG AGAGAGGCCG GGGCTGCTC AGACTCAATG ACATGGCGTC CACCGATGAC GGCACACTAC  
 AGTCCGACT AGTGATGGG ACCCAGGGA GCCTGCGACT GATCCTCAAC ACCAAGCTGT GGGCCAGAT GCAGATGAC  
 AAGGCCAGCG AGAAGGAGCA TTGCATCAC AGCCATGGAC AACGAGGACC AGGGCGTGAA GTCTTCTCTG ATCT

SEQ ID NO:2284: (Length of Sequence = 262 Nucleotides)

GGCGTGACAC ACGCGCCCGG CCTGTGGAG CATTTTAAAA TCTGATTCCT TCCCCCTGA AGTTCCGTT CAACCTTNN  
 CTGTGGTCAG GTTGATTNCT TTAATTGCTA AAACAAGTCA AAATTCATA TCCATGGCAG CTGACAAATC AGACTTTGGC  
 ATATAAAGTA AAGGGTTTAT TTTTCCATTC CTCTGTAAAT GGTGTTGINT TCACTTATT ATAGTGCTAT GAAGCTGGTC  
 ACCTGGGAGA ATGGCATAAC TG

SEQ ID NO:2285: (Length of Sequence = 193 Nucleotides)

GTGAGACACA GTCTGTCTCT GCTGCCAGG CTGGAGGGCA GTGTCTCGAT CTTGACTCAC TGCAGCTGAT GCCCCCTGGG  
 TTCAAGCGNT TTTCCACCT CAGCCTCCAA GCAGCTGGGA TTACAAACAT GNACCACCAC GGCTGGGTAA TTTTGTGTGTC  
 TTTAGTAGAG ACGGGGNTT GCCANGTTGG CCA

SEQ ID NO:2287: (Length of Sequence = 342 Nucleotides)

AGGCTGGAGT GCAGTGGCGC AATCTTGGCT CGCTGCAAGA TCGCCTCCC AGGTTACAC CATCTCCCG CCTCAGCCTC  
 CCAAGTGGCT GGGACCACAG GCACCCACCA CGCTGGCTA ATTTTTTTTG TATTTTGTAGT AGAGACGGG TTTACCATG  
 TTAGCCAGGA TGGTCTCAAT CTCTGACCT TGTGATCCG CCGCCTCGG CTCCCAAAGT GCTGGGATTA CAGGCGTGAN  
 CACTTGGGCC CGGCTTCAC CTGTTAGTTT TTCAAGAGT GTTCGTGATG TCCACTGTGA TAGTTATTTT GTGTGTCAAA  
 CTGACTGGGC CACGGGTGC CC

SEQ ID NO:2288: (Length of Sequence = 343 Nucleotides)

TTTTTATTGT AATGAAATTT TAAAAGGCAG TTACATTAGT TACACATATA CACAACCGAC TTAATAACTG TTAGTCATAG  
 AGAACATTCA AGAAATACAA ATGATTATC CACAGCACAG TTCACATCCA TAAGAAGAAA GAGAAATGGT TAAGTACTTA  
 AACTGTCCAC TGACACCTGC TTATGAAATC TTTTCTTTT TTTCTTTT TAAAGGAAAC TGAGATTGTT AGATGAAGCA  
 AGCCGTCTG CTCCGCACA GCCTGTGAAA CCTCCATTTT GCCACTTTCA AGGTCAGTGC CCCACAGACC CTGGGCTGTT  
 GTTGACCATA AACTAGCTT TGG

SEQ ID NO:2289: (Length of Sequence = 160 Nucleotides)

CGGGCCGCAA AGCTCAGCTC CTGGCGTCC AGGCCCTGGT GGCTCTTGAT GATCAGGTCC ACGGGGCTG CCACAGNTC  
 CTCTAGGCCC TTCAGCGCA NAGCGNCTCC AGCACCCTGT TGTGCTCCAT GTCCGTNAAC TGCTGCACGA AGAAGCATAT

SEQ ID NO:2290: (Length of Sequence = 310 Nucleotides)

473

CCGACTCTAC TGAATAACA AAATTAGCCG GCGTGGTGA CGCATGCCTG TAATCCCAGC TACTCGGGAG GCTGAGGCAG  
GAGAATTGCT TGAACCCGGG AGGTGGAGGT TTGCAGTGAT CACACCACTG CACTCTAGCC TGGGTGACAA GAGCAAAACT  
CTGTCTCAAA AAAAAAAAAA AAAAGNTTAA ATGAGGTCAT GAGGGTGAGA CCCTGATCCA AGCTCATAAG TGTCTTAGA  
NGTGTCTTA GAAGTGTCTT TAGGACACTT CTTTCTAAGT NTCCTAAGTT GGGGAGCTTG CTCTCCCCAA

SEQ ID NO:2291: (Length of Sequence = 270 Nucleotides)

CAAGACAGGG TCTCATTCTA TCTATTGCCC AGGCTGGAGT GCAGTGGTGC AATCTTGGCT CACTGCAGAC TCAACCTCCC  
AGGNTCAAGT GATGGAATTC CCNCAGTTTG TCTTTGACAT TAAGANGACA CCACATATAG ACGGCTGTTT GTCAGTGATT  
GCCCAGGNAT TCATGGATGC ATTINCTCTC ACAGAGCAGC AACTAGGGAA GGAAGCACCA ACTAATAAGC TTCTCTATGC  
CAAGGNTATC CCAACCTACA AAGAAGAAGT

SEQ ID NO:2292: (Length of Sequence = 332 Nucleotides)

CAGTTGTCTT ATATTCTCCA CCTCCCTTG GTTTCATTTC TCTTCGCTTC CTGAATGAGA AGTGCCCTGAG ATACCTTCAT  
TTCTCTTGAA AGTATTGATC CAAGTTTAGA CAAATATCTC CCTCTTGTT GAGAGAATTC CTTATATGTG AAAATACCAA  
GACATCTTG ATATTAGCA GGCATCAAA TATTTGTCTC CTCTTTTITA GCATAATTAA GCCAGACTGA TGTTTGCAAT  
TGAGTATCAT CAGCATGAGT AACNTTTTA ATCTCTCTTC CCTTAACCTAC TTGTTCTACA CTAGAGTCTA GGGTCAGGGT  
ACGTACAGTG AT

SEQ ID NO:2293: (Length of Sequence = 255 Nucleotides)

GCACCTGACT TATGTGAGTN TCAGGCTTCA ATGCCTGINT TAGAGCTACT CCTTCACACA AAATAGTTCA GAACATAGAG  
AAGGACCAAG GTTAATAAAT GATTTTATC CCAACACTA AACATGATTG ATGGGTAGAG GCTGCCCGAA GTACTGTGTA  
AAGATGGAAT CTGAGATAGA AGAATGCTGT GGTCAATTAG TAATCTCTGC CCATGGAGGG ATTAGTGACA CATGCCCTGT  
ATATTGTCTA TCTGT

SEQ ID NO:2294: (Length of Sequence = 236 Nucleotides)

GGCTTCAGAA GCTATTGGAA GATTCATATC AACTTACTAA TAATCAAGCA CTTTCATATT AAGACAATGT ATGATGTTA  
GTAAATTTGA TTTTNCATA AAAGAAGTTT AAAATAAAT AGCTATTTC AGAGNATCAT GGTGTGAGC AAATAGAAAT  
GTTGTGCTTA ACTCAATCA CAGTAATATT CTGTGGTAGT CAATTGATTT CTTTGAGCCN TTATCTTTTC ATCTGT

SEQ ID NO:2295: (Length of Sequence = 308 Nucleotides)

TTTTAATTTA ATCAGTAACT TTATTATAAC AAAACCTGTA TATTACCCAT TTAAACTCAT GTGTAACATT CAGTGATGTG  
AGCTGTATTA AACCCAGGTA TTAGTGAAAA TTGTCATTGT AAAACCTGGT AACAGTAGAC ATCTATGGGT GGTCAAGTAA  
TCAAGGACAC CTTTATTTT AAACAATTTT ATATAATTCA TATCAATATG CAAAATTACC ATAAAAGATA CANGGATTA  
TACATATTTA CATTTTATGA AATAGTTACT CTGAGGTGA CAGCTGTAC TTTTCTAAAT ATTTACAG

SEQ ID NO:2296: (Length of Sequence = 279 Nucleotides)

ACCCCTCCTG GAGGCTTTCC CCTCCCCAG GCCTTCCCTC AGGGCTACGG TGCCCCGCCA CAGTTCAAGT TTGGCTACGG  
GCCTCCACCT CCACCGCCAG ATCAGTTTGC CCTCCGGGG GINTCCTCTT CCACCGCCA CTCCCGGGC AGCACCTCTG  
GCTTCCACAC CGCTCCGTC TCAGGCTGCC CGGACATGA GCAAGCCCC GANAGCTCAG CCAGANTTCC CTTATGGTCA  
GTATGCAGGT TACGGGCAGG ACTTGAGTGG CTTCGGACA

SEQ ID NO:2297: (Length of Sequence = 306 Nucleotides)

474

CTGAGAAGAA AGAGTGTGTT GTAAAGGACA ATGACTTTGA GCCCAGAGCC CTGAAAGCTA ATGGAGAAGT TATCATTGAA  
ATTCCAACAA GAGCTTGTGA AGGACAAGAA AATGCTATCA AGTCCCTGGN GCATGTACAA TTTNAAGCAA CAATTGAATA  
TTCCCGAAGA GGAGACCTTC ATGTCACACT TACTTCTGCT GCTGGAACTA GCCTGTGCT CPTGGCTGAA AGAGAACGGG  
ATACATCTCC TAATGGCTTT AAGAATTGGG ACTTCATNGT CTGTTACAC ATTTGGGAGA GAACCC

SEQ ID NO:2298: (Length of Sequence = 307 Nucleotides)

AGTACACCTA GTATCTTTAC AGTACTATT AAGTATTTT GAACCTAAAG TATATATTCA TCTTAACTC CTGGAACAT  
GAACCTCCC ATGTAATTN CTGATGAATG AAAAGGAAAA CTTCTTTCA AATAAGTGT ATCTGTTGCA AAAGTATGIG  
ATTTAAAAAC ACATGTAAT ATAATCTTAG CTCTAATGTT TTCTTTGGG AGTTTGGGAA AAAGCAGTTA CATTTCTCTG  
TTGTCTGGT TTTATCATTT GAAAATTGGA AGGATTCAIT CTGGATTGCT GAGCTGCATC AGTAGGG

SEQ ID NO:2299: (Length of Sequence = 289

GTTTTAATG CATTTTTTTT AAAGATTAAA GTAAAATGTC TCAATTGTAA AAAATACACA CCGGGCAAAT CCTTACCTGG  
NTAATAAATA TCTACATCAC AGTACAATAA AATTNCTNCT CTATAAAATT TAAATATGGA TTATAGTCTA TCACTATCAA  
AAGAAACACT ATGCTAATAT TTCCATATTA TTAATAATAC AGGAAAAATT ACGNGCTTAT TTTAGAACCT GATGCCATAG  
CCGTTGGAAA GGGCAAAGAG ATTCAAATGT CGATCATCAC TCTCCATTT

SEQ ID NO:2300: (Length of Sequence = 371 Nucleotides)

CACCCATTGA AAAAGCAGCC GCCCTCCTTC CCAGGAGCTG CTGAAGAGAG AGCCTGCCAG AGCCTTGCCA GCAGGGACAG  
CCTCTTAGAT ACCAGCAGCG TCTCAGAACC CAACGTGTCC TTGTCTCNC ACTGTGCGGA CAGCAACAGT GGTGACATAG  
CTGTNATCGN GGAGGTCCGG ATGGAAAACC CAAAGGAGAG TAGCAGTTCC CTGAAGACTG GGAGGCACAG CTNAGGCCAA  
GACAAACCAC ACGNAACCTA CCGACTGCTG AAACGCAGGA NTCTGATCAT AGAAGCTGTC ACCAATCTTC GCTTAATOGA  
GAGTTTATTC ACGGTTTCA AGATGATCAT GGATCAGGAG AAGCAGGAAG G

SEQ ID NO:2301: (Length of Sequence = 287 Nucleotides)

ACTTGGTGT GGGATTTGTT GTGAGTTTG CTGACACCTT GACCATTTT CACTGGCTGG AAATGAAAGG AACTTCCAC  
TTGCTTTTG AAGCAATTC CATTTCTCC AGGGTCTTA TTCTCTCC ATATTCTCTC AACTCCCAA ACTTCTGAAG  
AAGGGAGCAA ACTTTGGCCA CGAGGAAGGA GINGAGCTGC CTCTGTACTT GTCACTGCAC CTGCACTGGT TGAATCCACC  
TTTCTGGGT CACGCCGCTG TGCTGGGTGG TCACAGCCTA GGACCCC

SEQ ID NO:2302: (Length of Sequence = 358 Nucleotides)

GGAACACAGG ATCCAACTT GTCGGGAAC TCGGAGAGAA GATCATCGTT GGCGCGGTCC TTGGTGGGCC CAAGGATGAT  
GATGGGGCGA GCATAGTGCA CTCCATCTG CGTCACTGTC TCGTAGCTCA GAACCGAGTC TTCTCGACCC TCGGATCCAG  
AGCTGGAGCC CCAGTCTTG GCCTTTAACC TTGACCACTC TCGTCGCTCA ACCCGCGTT TGCTGGGGAT GAACCCAATG  
TCGTGGTCT CACTGTCAGA GTGGACCCGC CGTGNCTGCC ACCACTCTC ATCACTAGCA TCGATGACAT GCAGCACATN  
CCCAAAGCGG AAGTTCAAGG GCTGGCTCA GGAAGCCG

SEQ ID NO:2303: (Length of Sequence = 403 Nucleotides)

GTCAGGGGCT CCAGATCAT CTCTCCAAG GGCCCCGAG GCGCTCTT GGCCTCTGGC TCCTGCTTGC CGCTGGCCTC  
CAAGATGGTC ATGATGGAGT TAGGGATGTA AGCTTGCTGG TGGGGGGTGA AGGAGCGGAC ATGGGCCAGC AGGGGCTCCC  
GGAGCTCTGG GCACTINTCA AAGACGGCTC CCAGCTGCTG GGGGGCANT GCAGGATGAC CTGGAAGCTC TGGGGCTTGG  
TGCGCTGGCA GCACTTGATG AAGCCCTCCC ACACCTTGGG GTACTTCCAC AACTGCTTCA TGATGAGGCG GGACAGGATG

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TTCATGACGG AAGCCCCCA GCGGGGGTA CATGGTCANG GACCTGGATG ACGGTCCTCA TGAGCAACAT GGGCAAGGGG  
GCT

SEQ ID NO:2304: (Length of Sequence = 376 Nucleotides)

ATCTTGCTAT GTTGCCAGG CTGGTCTGA ACTCCTATTC TCAAGAGAGC CTCTGCCCTC AGCCTTGTA AGCACTGGGA  
TTATAGGCAT GAACACCGC ACCCAGCCAA GATTGCCATT TTGTATGATG AGACTGGAAG GACCCCATG TTTCAGGATT  
TTGCTACAAT ATACAAAAA CAATCTGTGA GACAGTGGCT GGGCTTTTTT CCTGCCGTGAT TAGTTCAGTG CACATACAAC  
TTGGACCAGA GGATCTGGGT TTGAATCCCA TCTCTGATAC TTCCCAAACCT GAGCTGTTTT CCTATTGTGT AAAGACTAAG  
ATCGGSTATG TCAAAGAGCT CTGTAAACTC TCAACACATA CAAAGTACTA CTGCTG

SEQ ID NO:2305: (Length of Sequence = 354 Nucleotides)

CTGCCAGCC TGCTCCTGGC CCCCTGGAAG CCTCCCCACA GCTGGTAATC TGGACTTAAG GATTGCTGGG CCACCGCCTC  
TCTGCTACC ACCATTCCAT ATTTAAGTGG AGCCCTACG TAGAAGGCC CCGGGGCTTT ATTTTAGTCT CCTTTTCAGG  
GATGTGCTGG GCGGGGGAGG GGGTCTTGG TGCTACAGCC CTCTCCCCAC CCTAAAGGG ACGCCGACGC TGTTTGCTGC  
CTTCACCACA TATTAGTGTG TGACCTGGC AGGGGACCC ATGGAAGAAG TGGGAAGAG CAAATACAT GGAGACGAG  
CACCTNCAG GGATGCTCG TTGGGATTCC CAG

SEQ ID NO:2306: (Length of Sequence = 345 Nucleotides)

CCAAGATCCT AAGTAATCC AAATGCCCTA GATATCAATG AAAGCTACAC ACCATTGAGA TGGGCAAAAT TCTTTCTCTA  
CAAAGGGAGT AATCAAGTAA ATACCTGTCC TCTTTCAATG GACTGTGCC TATTGAGCAT TGTGGATGAT GTGTTTTCAG  
ATTTCCAGGT GAAGTCTGA CCTACCTGT TTGGCCAAAG ACGTAAATG AGAGGAAAGG CCTTGGTCTT CCTGATCAAC  
CAGCATTTAA CGAACAGTGG CTTAATGCAG ATCACTCAAG AGGNACATA GCANTGTAAA AGGAATATAA GTAGGTGTG  
GATGCCTTTT TCCTAGACCA GGAAT

SEQ ID NO:2307: (Length of Sequence = 337 Nucleotides)

AACAGAATGT AAAAATAGC AAGTCAAAC CTGGTAGAAC TGCATGGAGA AACAAATGGA TTCAATATTA TNAGTCGGGA  
AATTCACGC CCTCTATCG AAAATGACA GATCCAGCAG GCAGAAATG AGTAAGGACA TTGTTGAGCT CTGCAATACC  
ATCAATCAAC TGGATATAAT GGACATCTAT AGACTACTTC AACACAGCA GAAGATACAT TCTTCTCAAG CTCACATGGA  
ACATTACAA AGATAGACCA CACGCAGGCC CATAAGCAC ACCTTAACAA ATTTAAATA ATATAATCA TACAGTGTG  
TCTCAAACCC NCAGTGG

SEQ ID NO:2308: (Length of Sequence = 216 Nucleotides)

GAGGAGTAA CINTTTCTG AGAAGCATGC TTAGGTTGIG GGACAGGAAG TGGTAAAGGC AATGCATCGT CCACAGAGGT  
GGATGAAGCA GTNACAAAG AATGATAATT TNANCTGCTG GTGGCATCIN CACTGCTGGA GTGTATGSCA GCAATCATCT  
TACTCTCCAT CATCCTGGTG GGGGGCAGIN GTGCAGGAAA GCCACAGGA TTCGCA

SEQ ID NO:2309: (Length of Sequence = 289 Nucleotides)

GGGGCTATGA AAATACAAA AACATTAGCA CATTATAGT ATGTATGTGT CTACAGGCAT TTNCCCAGCC CTATGAGAGT  
NCTGCAATTT GAGAAGTACT AAAATGTATT GTTTGGTGAC AAGAACTGCA ATAAAAAGAT AAATGATTIN CTGAATGTTG  
TGGCAAAGCA GTCTATTTCC ACTGCAATTT CTGCTACTAT TAGCTTAAAA ATTGCTGAGA CAAAGGACAA CCTTCTGATT  
ATNCTGCTGA GATCTAATGC AAAGTCCTCT CAGANGCTTC ACTACACAT

SEQ ID NO:2310: (Length of Sequence = 359 Nucleotides)

CTGNGGGCTG CCTCTGTTG GTCAAATCCA ACCAAAAGCT AAGAGCTGGA GAGCTTGGGT GGTGCATCCA AGGAGGCTTG  
CTTCTGGGG CACAGAAGGG AGAGTGAGA AGGATGGAAA GTGGCTCTAG GGGAGGAAAT GGAGAACATC CAGAACTTTA  
TGTCACCTCT GGTGCTTGAA GGCCTTTCTC CAGGGAGACA AAAAGTTTGT NTTGGCTAAA GCTCCCTGGT TGCTCAGGAG  
CCAAGGGTCA CATAATGTGC CAATGGGGT TTTTGCCCTCT GAAAGCCTCT GAGGTATAAT TACTTGCAAT GNNAACATCC  
CTTTCTCTC TCTTCTCTG CCCACCTTC ATGCCAAGG

SEQ ID NO:2311: (Length of Sequence = 324 Nucleotides)

GTNGGGGCC GGCTGGGCA ACATAGACAC CATCTCTTA AACAAACAAA CATCATTAGT TTCTACATTC TACAAGGTGA  
AAGACTAATT AGAAGTAAA AATACCACTG AAATGTTGGT GTACAAATGG CAGCATAATT TGATTTACAC TAGATTTTAC  
ACATTTGTGT CTATTTCAAA TAGGTACTTT TACATTTTCC TTAAGTGCAT CTGACACAGA GTGAATCACA GATATATGTT  
GGTGTGAAA GCAGAGGTTA CTATTATTAA NCGAAAATTT TTGTGGTTT GCAGTCATCA TATCTAATGT GGTACAGAT  
TGTC

SEQ ID NO:2312: (Length of Sequence = 362 Nucleotides)

GNAGTTTATA AAGCTTTATT AAACATTTCA AACAGCTGTG CAACGAACAC ACCAAATAAA AGCTCTAGAA TAGCAGTCCA  
GAGCTTTCAC AAGTATGGCC TCACAGTCCC ATTCCTAGA TGGACTGCCT CCAGTCTGT NCTCTGCTG GCCCATCTCT  
CTTCCCTC AGGCAAGAGA GAGATGGATG GNTCAGACTG AAAGGACAGG CATGCTGATC TCCAGCAGGC AGGGCCAGG  
AGAAAGTCTC GTTGGCAAC ACTTGTTACT GAAGCGCAGA AAAAGCAGCA AGTGACAGTC ACAAAGTCTT CCTGGGTAT  
TCTTCATAAC GTACAGTCTA TATGCGCAGG AAGGAGGAG CT

SEQ ID NO:2313: (Length of Sequence = 449 Nucleotides)

TGTAATTTTT AAATTAAGAC TGCCTTAGTG AGAAAATTC AGCAGGTGAG TTAAGGGCAC GAGGAAAGGG CCTTTGTGCA  
GAAGTAATGA CATAGGCAAA TTGTCAAAGG AGAGGTTCCC TGGTGTATTT NTAGAAGAAA GTAGACCCAT GTNTCTGAAC  
CCAGCACACA GTTCACTTAT GGTGGTTTTG AAATCTGCC TGAATTTNC ATGCATCTTT TAAATTTTGT GTTTATTTTT  
NCAAGAAATA AATGAAGTCT TTATTTTNC AATGAGGCA ATGTTTATTA AGAACAGCAC ATAAGGTAGA AAAGAAGGTT  
GGTTCTAAT CTGGTTCAT CTCCCCACT GATCTTGAGT TTTAAAGCA TAGAGAGCAC GATCCTTCTG TGGGGTCTCC  
ACTGTCAGAG AGCCTGTCNA GATGAGCAGT CACACTGTTA CTCCACAGC

SEQ ID NO:2314: (Length of Sequence = 316 Nucleotides)

CGAGGCAAC ACAAGGGCT CCTTCTGCTT CTCTGACCCC ACCTGCAGCA GGTAGTGGAT AACAGCCCTT ATGGCTCTCT  
TCATGACGCT CACGAGCTGC ACCTTCTGTG GCTCCTTAAG CAGTGACTGC TCACAGCGAG TGCATTCTCT GNTCCCAAC  
TCCATGAGG CATAGCAGGC GGTACCACA TCCCTTTCA CCTCGTGCC CGTNTCTCC AGTGCCAGCC GCACTTCCAC  
GNACGNCAGA TTCACCAGCA GGGCCAGGAA CTGTCTCCG GAGCTGCCG CCGGATCCA GTGGAGCCG CAGGTG

SEQ ID NO:2315: (Length of Sequence = 286 Nucleotides)

ATTTTTATGT GTAGACAGGC TGTGGGTTC CCTCACTTAA ATTGAAGTCT TGTGAACCT GAGACACTTA AGANTCTTGC  
AAGTNGAAA AGTGGAGTGA AACAAAACCA TTTCTAAAC GAAATGTGT AACTNCNTTC AGTTTACAC AGTGNAGAAA  
TAAGTATTAA ACAAGTTAGT CTCAAACGGT TATATCTTAA GTTCATTTA TTCCTGTAT CATTAAGTAG ACATATCTTG  
GTTTAGAGAG CAGCACACAA GACATTGTGT ACTNITTAAT AGCTAA

SEQ ID NO:2316: (Length of Sequence = 414 Nucleotides)

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AATCATAGCT TACTGTGGCC TCGATGTCT GAGCTCAGGC GATCCTCTCC TTATAGCCTC CAGAGTAGCT GGGACTATAG  
 GTGCGTGCCA CCACACCCCTG CTAATTINAT GTTTTGAAGA GACCGGGTCT CACTTTGTGTG CCCAGGCTGG TGTGAGACTC  
 CTGGGCTCAA GCTAAATCAC CCACCTTGGC TTCCCAAAGT GTCGGGATTA CAGGTGTGAG CCACTGCGCC CAGCTCTGAT  
 TTTTGTATTT CTTACTTAAAG GCGACATACT TAGTAGCTGT GCGTCTTGGG GCAGATACCT CCCAAAGCCC CAGTTCTGTCT  
 ATCTATAAAT AATGTAACAA CAGGGCCCCG CTCGCAGGGT TGCTGTGTGC ACATATGTGT GTGTACGTAC CCATGTGCCT  
 NTACGAGAAG GGCT

SEQ ID NO:2317: (Length of Sequence = 166 Nucleotides)

GCAGTGACTA TTATTAACAT TACAGTACCA AGCATCCGCA AGAGACAGTC ATTGTINAIT TTINATCAAG AAATAGGGCT  
 GTTTTATACT GTTATGACA TCACTTTT CCCAGTGCAT TTTTCAAAA TATTAATAAG TTCATTCCTT TGTGCTTTTA  
 ACTTCC

SEQ ID NO:2318: (Length of Sequence = 374 Nucleotides)

TTTATTTTAC ACTTACAAA GAAATCGCCC ACCCCTTTC CCCATTCGCC CAAAACAGTC TCTTTTACA AACATTTAAA  
 AATTAAACC AAATGAAGAT AGACAAGTTA ATTTCACTAC AATTATTTIN CAGGTGTAGCT GTCATAATTA GAGTTTAAAT  
 TTCCTACAAG TGACCAATGT CCAAGTGACT TATAGGGAAT TCCTGATTAT CGGCCAAAGG AAATCAATA TTACAAGTTA  
 GCAAATTCCT AGTACAAAA TAGTCCGTGT GTTGGAACTG CTTTTCCTTG TTACATAGGT CITAGGTACAG TCTGCTGINA  
 ATACCTTAAC GNTTCGGAT TCINNCTCA CAAATG AATGTCCT GCTG

SEQ ID NO:2319: (Length of Sequence = 380 Nucleotides)

CATCTTAGTT CATGGTAATC TCCTTGGCAG CACTTATGT CTTGTGTGTA GAGCAAATGA TAGAGTCATC CATTCAAGTT  
 AATTAAGAGC ATCTGCATTG CAAACCTGT CACTAAATG CTCGCCAAT TTGAGGCTTT TTTCTGCCA ACACAAATTA  
 ATTTTTTAAG TAGCAGCAIT TTCAAGAGAG ACCAAATAAA GAAAGCAACA ATAAAGTTGC CTGTCTAGTG AGATGTCCCC  
 AAACATACAA CTTTAAACAT ACCTTTGCTT TTNATAGTAG TTCTTCACAC AACTGCCTT AATCAAAATG CGTGTCTCTT  
 GCTCTGTAT TTTATGTTTT GGCTCTTTAG CAACCTAATT GTATGGTTAG ACAGATTCCT

SEQ ID NO:2320: (Length of Sequence = 348 Nucleotides)

GGAGTTCTCT TGTCCACGGA GAGCAGTGT GAGTGTATG GAATGCTAAA TCTTACCCCA AAGGGCAAGC AGGCTCCAGG  
 TGGCCATGAG CTGAGTTGTG ACTTCTGGGA ACTAATGGG TTGGCCCTG CTGGAGGAGC TGACAACCTG ATCAATGAGG  
 AGTCTGACGT TGATGTCCAG CTCAACAACA GACACATGAT GATCCNAGGA GAAAACATGT CCAAAATCCT AAAAGCACGA  
 TCCATGGTCA CCAGGTGCTT TAGAGATCAC TTCTTTNATA GGGGGTACT ATGAAGTTAC TTCTCCAAC ATTAGTGCAA  
 ACACAAAGTA NGAAGGTGGT GCCACACT

SEQ ID NO:2321: (Length of Sequence = 330 Nucleotides)

ATCTAGACTT TNAGTTCCCT GCATCTGCCA CCGTAGTTTC TAGCAGGAGT AGTGGGGGGA GTAATACAGA TTCTNCCCTA  
 GAAGGGGACA CTGGTAACAT GTCCACTCT TGGATTAGCA GGGGTGGTC CAGGAAGATG ATATTINNT CTTTGGCCCA  
 CCCCCCTGGC ATTCACTGG ACCCACTAG GCCATCATGA GTGGCTTCTC CCTGTATCC CCAGGGGTCA TAGGATATCT  
 ACACCGCCTT TNTGACCCA CCTGCACTC CCATCCTTC CTCTCTCCC GTTTCATGCC CTGCACTACA TAGCACAGCC  
 GGGATGCTIN

SEQ ID NO:2322: (Length of Sequence = 352 Nucleotides)

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TTGACAAGTA AGTGTATATA TTTAAGGTGT ACAATGTGAT GCTTTGATAC ATACAGTGTG AAATGATTAC CACAGTTAGG  
 TTTAATAATT AACATATCCA TCATCTCACA TAGGTATGAT TTCATTATGTG TGTGGCGAGA ATCCTGAAAA TCAACTCTGA  
 GCACATTICA AGTGTACAAT ACAGTATTTA TGATAGTCAC CATGCTGTGA ATCAGATTGC CTACCTTGGT TAAAGTGCAG  
 ACTCAGGTGA AGGTCTGGAT GGAGGATCAT ACTTTAATTG ATTTAGACTC TAAAATAAAT GTATATAGTT ATTTTGTCTA  
 ACCTAANGAA CCTACTCATA AATGGGCTAG TG

SEQ ID NO:2323: (Length of Sequence = 316 Nucleotides)

GAGACAGAGT CTCTCTCTGT CGCCCGGGCT GGAGTGCAGT GGCACAACTC AGCTCACTGC AACCTCCGCC TOCCAGATGT  
 CCAAGTGATC AAGGGGTTTC ATTTGCTCTT GGGGGATTAG GTATCATTTG GGGAGGAAGC ATGTGTTCTG TGAGGTTGTT  
 CGGCTATGTC CAAGTGTCTT TTAATAATAG TGGAGACGGG GTTTCACCAT GTTGGCCAGG CAGGACCTCA GGTGATCTGC  
 CCACCTCAGC CTCCCGAAGT GCTGGGATTA CAGGCATGAG TCACCACACC CGGCTTCATT TATTTTCTTA TCCATG

SEQ ID NO:2324: (Length of Sequence = 300 Nucleotides)

GGGACAGGA GGTGACCTCG CGAGCAGACG CGCGCNCCAN ACAAGCAAGC CCGCCCCGGC CTCTCGGGAG CCGTGGGGCA  
 GAGGCTGCGG ANCCAGGAG GGCCGAGGCC CTCATGANIT CANINACCTG CTTCCTCCCC TTAGGTTCTA TCAGCCACAG  
 TNICTGCAAG TTTCCAAGAG CAGCAGAAAA TGAACACATT NCAGGGGCCA GTTTCATTCA AAGATGTGGC TGTGGATTTC  
 ACCCAGGNGG AGTGGCAGCA ACTGGACCCT GATGAGAAGA TAGCATACGG GGATGTGATG

SEQ ID NO:2325: (Length of Sequence = 303 Nucleotides)

CTGTCTCAAA TAATAATGAT AATATTINCT TATGCTTACT TTAAGTAAAG ATTACAGTAT ACATTACAAC ATATGCGTTT  
 ATTGACTGTT TATGTTATTG ATAAGGCTTC TAGTCAACAG TAGGTTACTA GTAATTAAGT TTTTGAGGAG TCAAAAGTTA  
 TGTGTGGATT TTCAACTGTG GACTTTGGTG CCTCTAAGCC TGTGTGTTT AGGGGTCAAC TGIGTATTCT TTCGTGNGA  
 ACATTTTTAG ATGTTATAGC CTTTAGACAT TAGAAATGGA AATTTAGTTG AACTCGNGTG TTC

SEQ ID NO:2326: (Length of Sequence = 348 Nucleotides)

GTTGGTCTCG TGTGGCAGAT GACACAATCT CTCCTGCTCC TGGAGGCCAG CTCCTCCGTG GCCAACCTCA GGCCTCCCAT  
 GGCATCTCAG GGCTCTCCA GCCAGACTGG CGCATCCAA TTAACCTGAT GGTGGCTGAG CAGCTCAGCT CTGTGCCAGC  
 CCTGCAGGA GGCAGATCAT GTTGTCCAGG CCCAGAGGT AGCCGTCTC ACGGTTGCCN TCAGCCAGG GCAGCCTGTG  
 GCTGAGCGTC TGGTGGTCGG GCAAGGCCAC CGTCTTGCCG AAGTCTATCA TCCAGACCTT GGCCAGGCCG GTGTGGTCTG  
 GCACGAAGAG GAGGGAGCTT CCTACCAC

SEQ ID NO:2327: (Length of Sequence = 392 Nucleotides)

AGCTGTTTTT TCCTAGCTGC CAAGACTGTT GAGGAAGATG AGAGAATTCC AGTACTAAAG GTATTGGCAA GAGACAGTTT  
 CTGTGGATGT TCCTCATCTG AAATTTTGAG AATGGAGAGA ATTATTCTGG ATAAGTTGAA TTGGGATCTT CACACAGCCA  
 CACCATTTGA TTTTCTTCAT ATTTTCCATG CCATTGCACT GTCAACTAGG CCTCAGTTAC TTTTCAGTTT GCCCAAATTG  
 AGCCCATCTC AACATTTGGC AGTCCTTACC ANGCAACTAC TTCCTGTAT GGCCTGCAAC CAACTTCTGC AATTCAGAGG  
 ATCCATGCTT GCTCTGGCCA TGGTTAGTCT GGAATGGAG GAAACTCATT CCTGATGGC TTTCTCTTAC AA

SEQ ID NO:2328: (Length of Sequence = 256 Nucleotides)

ACGAGCACAC TCTTCACAGT GGGCGGAAC ATCAGAAAAAT GGGAGCCTTC TTCTAATGGC TGTNCTTTTC TGTGGGAAA  
 AAAAAAAG AAATCTCCA AACCACACCG GATGGTTGTA AAAAGCTGCA ACGGAACCTT TGGCACCNGA TGAGAAGAGA

GGCCTTTTAA TGCCATAGCT AGTGATGATT CANTCAAAGC ATCAGTCTAA GGAAGGATGA TGGGGGAAGG GACCNAGAT  
CACAGNCTT CTCCTT

SEQ ID NO:2329: (Length of Sequence = 383 Nucleotides)

AGTAGAGACA GCATTTTATT ATGTTGGCCA GGCTGGTCTC GAACCTCTCA CCTCAAGTGA TCTGCCGACC TCGGCTCC  
AAAGTGGGG GATTACAGGC GTGAGCACNC ATGCTGGCC TTTTTTTTTT TTTTTTTTAA CGAAGTTATT TTTCTAGAGC  
ATTCATAGTT TGTTTTTATA CAGTTAAGGT TCTCATCCAT CTGGATTTTT TGGTAAGTGT GGGGAGAATA AAATGAGGAG  
CCNCIGTTTT TTTCTCCAAA TGGCATGAT TGTCCCAACA CAATTTATTG AATCAATAAT TCATCTCTCC CATACGAATT  
TAAACTATG AACTTTCACA TCAAAATTTT GGAACCTACA AGTAGGTTTA ACAAGGTGAG AAC

SEQ ID NO:2330: (Length of Sequence = 392 Nucleotides)

CGAAACGNIC TCAACCTATT CTCAACTTT AANTGGGTAA GAAGCCACT GGTACAGCATG GCAAAGCCCC AGCTCTAATA  
AAAAATGCAA AAAATTGGCT GGGAGTGGAG GGGGGGCGCT GTAATCCAG CTACTTGGAA GGTGAGCTG GGAGAGTTGC  
TTGAGTCTGG GAGGCAGAGG TTGCACTGAG CCGAGATCAC ACCACTGCAC TCCACCTTGA GCAACAGACT GAGACTCTGT  
CTCAAAAAA AAAAAAANT TATGCAAAGT GTCTTTTCCA ACAAAGTGT AATGAAGCTA GAAGTCAATA ACAGGAAAC  
CTGGGGAAT TTGCAAGTAA GTGAAAGTTA AACAACATTC TTAACCATG GCTCAAAGGA GGAAATGACT GG

SEQ ID NO:2331: (Length of Sequence = 284 Nucleotides)

AAGAAAAGTA AATTATCTT GCTCAGTC CTCTCTGGAA GAGTTTAGAA AGCAAAGAAT TCACCGACTC AGCAGGAAGC  
AGAAGGAGCT GTTCTTCTT TTGACAGCA CAAGCTAATC CCTAGAGAG TGGGGATGTG GGAAAGGAG GGTAAATTAAT  
TCTTTGGTCA CTGGTCACT GCTGAATAGC CTGGTCACT TTTGGCTCTC TCTATTTTA GGGGAAAAA TATTTTNGIT  
TCTTTTTTTT AAAAAATAAA ATGTTCCAC AATGGGAGAA AATT

SEQ ID NO:2332: (Length of Sequence = 349 Nucleotides)

ATCTTAAAA GATTTTTTGT ATTTCCTTT GAGACTGGT CTCAGTCTGT TGCCAGGCT GGAGTGTAGC AGCTGATCA  
TGGCTCAGT CAGCCTCTAC CTCCCGGGC TCAGGTGATC CTCCCTCTC AGCTCTCTGA GTAGCTGGGA CTACAGAGT  
GTGGCACCAT GCGCGCTAA TTTTGTATT TTTTGTGAG ATGGGTTTT GCCATGTTC CCAGGCTAGT CTGGAAGTCC  
TGGATGTGAG CCACTGCGTC TGGCTATTA TTTTAAATAT AGTCTCTTT ACTGCCAGTA GCTTTCATAT AACCTAGCG  
ACTAGATTTA GTCACCACTG CTTAATTC

SEQ ID NO:2333: (Length of Sequence = 353 Nucleotides)

CCACCTCTCC GTTCTCTGCT TCTNAACAC AGCGCATCC TATTTGCAGC CCTCAAGATT AAGGATGAAA ATTTGACTTT  
TTAATTTTAT TATCTTGTG CTTCCTTCCT ACTTCATTAG AATCATGTTA TTGGCCTAAA ATACTGTATG TAAAGGATGC  
TCTGGGGCCC ATCTGGAAGC CTGCATCTC TGGGGATATA ATTACGCTAA GCAATTTTTC ACCAGGACA GCATGACTTA  
GCTTCTACCT GGCATCTC TGGCAACACA GCGCTCAGT CTCCAAAGG GATTGGCTGC TGTCCCTCA GGCCTCTTC  
TTGNGTGTG GTGTGTGTG GTGTGTGTG TTC

SEQ ID NO:2334: (Length of Sequence = 279 Nucleotides)

GCGCTTCTA CNAGCTGCTG CTGCGCNCCT CATNCTGGTG GCGATGCTGC AGCTGCTCTA CTTGTGCTG CTGTCCGAC  
TGACGGGCA GGAGGAGCA GACCAATATT TTAAGTCTT TCCCGCTCC CCACGCTCC TGGACAGGT CAAGGCGCAG  
TCGNACCGC GCTGGCTCT GAGGCGTCC TNGAGCTAG CCGGATTAC CGCNCTACA GGGGCTGCT GAAGACCACC  
ATNACCCCA ACNATGTGAT CCTGGCCACG NACGCCAGC

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SEQ ID NO:2335: (Length of Sequence = 386 Nucleotides)

GCCTTTTGT CATGGTAGCA AAGTGGCTGC TGTGGCTCCA GGCATCACAC CCTCAATCAA GGTAGGAAGA AGAGGCCAG  
GGAGGTGTA GCCATGCTG TTTCTTTAT TGGAAAAGCT TTCCAGAAG CCCAGGTAGA CTTCCTCTC AATTTCATTG  
GCCACACCTG ATCACATAGC CATCCTAAGC TGCAAAGGAG ACTGGAACAG TGAAAATCTG GATTTCAGC CTCCACAGTT  
GGAGTGGCTG GAGATACAGA GTTGGGACGA CCCCTGAAAA GTGAACCAAG GTCGTCTGCA CGGCTGCCCT GGAGGGCGTG  
GTGCTTGAGG TCCCTTCTAC CTCTGGGCT TCATGGAATG ACTGTGTGCC TCCATGGAGC ACCTCT

SEQ ID NO:2336: (Length of Sequence = 258 Nucleotides)

CCCTAGCAAA CCACTGATGA CCGCTGGNA GGGCCAGCC TGTCGGTCT CTGGGCCCTG CAGCTNTTC TNTAGGGTA  
GCGGTGGTGC CCGGCTCACT TTCTGAATCT TTTTTTTTT TTTTCAAAAA GGAAAGTTT TAATGGAAAG TTGAGCCAGA  
ACTAAACCAG GGAGCTGTCT GAAATCATAG CACCCATCC GGGTGGCGG GAGATCAACT CCGAGCTGTT TTTCCGAGGC  
AGTGAGGAAC GGTCCCG

SEQ ID NO:2337: (Length of Sequence = 338 Nucleotides)

ATCTCTTTC CCACTTCATA AAAGCAAAAT ATGTAAGACT AGCATCTGGT TTTTGTCCTA ATAAAAAAT CCCACAATT  
TCAAGATATC ACTCTAGCTT TCTAAAGTAG AAAGGCAATT CAGGCAACAA AAAATATTTT TTAATAATCT ATAGCCCAA  
TCACAAAAG GTAAGGAAAG AACTTTCTTA GCAAGCTCTG GAGAAGACCT AATTGNGCA TCAAAATGGA GCTTTCAGAC  
ACTAATCAAG GCCATTAAAT AAAAAATTT TTTTCAAGAA ATAAGGCAGG TTGGATCTCT TTTCCCACTT CATAAAGCA  
AAATATGTGG CAGACTCT

SEQ ID NO:2338: (Length of Sequence = 410 Nucleotides)

GGTCTTGCT ATGCTGCCTA GGCTGGTCTT GAACTCTCA ACTGCAGTCT TGACCTCCA GGCTCAAGTG ATCTCTTAC  
ATAGGCCTCC CAATGTGCCA GGATTATAGG CATGACCACC ATGCCAAGCT CCAGATGGTA TTCTTAATTC AGCTCACAAT  
GTGCCCTCAT CAGATTGCTA GTGGCCAGGA GTGAACAAT GAGTGACTTT AAGAATCAGG ACACCAGGAA TATGTTCTTA  
GAAAGTGAAG GTATGAGTGG AAAACCTGGG TTGGATTATG AACCAAGCCC ACATGTGTGC CAGAGTGGCC AGGGCAGGGA  
GCAGCAGCAG GTGCTGGTGA AAGGAAGGTG GATTACTGGG GGCAATGCT GTCTTTGTGT TATGGGTTC TTTTGAGGGA  
AGTAGATAAG

SEQ ID NO:2339: (Length of Sequence = 336 Nucleotides)

AGGGGAGGAG GGGGCTAAGG GCGGCTGGAG GAAGAGCGAA ANAGATGGAA GCCTTCCGGC AGAAGGCAGA GCTGGGGCGT  
TNTTGAGAC ATCAGTATAA CGCTCAACTC AGCAGACGCA CACAGCAGAT CCAAGAGGAG CTGGAGGCAG ACAGGCGGNT  
CCTGCAGGCC CTCCTCGAGA AGGAGGACGA GAGCCAGCGC CTCACCTGG CCAGGCGGGA GCAGGTCAAT GCCGATNTGG  
CCTGNTGAA GCAGGCCATT NAGGNGCAGC TTCAGCTGGA GCGGGGCGG GAGGCAGAGC TGCAGATGCT TCTTGAGGGA  
GGAGGGCCAA GGAGAT

SEQ ID NO:2340: (Length of Sequence = 290 Nucleotides)

TTTATAGTAG ATGGGGGT TCTCCTTGT GGTCAAGCTG GTCTGAACT CCGACCTCA GGTGATCCAC CTGCTCGGC  
CTCCAAAGT GTTGGGATTA CAGGCGTGAG CACNCGCNC CCGCTTCAG TTTCTCTTA GGCGTTCTG TCAACCAAAT  
AGCTGCTACC CAGAGNGGCG GGGTTGACCT AGGCTGAATA TCCACTTGT TTTATGGAT GGCTNCCTTC CCCCATTCGN  
CTTNCAGA ATATCCTTC AAGTINCANT TTCCAGGGG AGCTCTTGG

SEQ ID NO:2341: (Length of Sequence = 298 Nucleotides)

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TTTGTCTTAT TACCCGATTT ATTAGAGAGA TCTCTAAAAA GACGGGGTGT GCGGGGGGTA GGTGGGCGAG GAACCTGGGA  
 TGCAAACAG TGTTTGGGCG CAGGAGTGGC TGTATGGTTT CANAGGCGCC CACCACTCTG GGTTTGAGGG ACACAGCACC  
 CTCGTCCTCG CGCTTTGGAT TATACGAC CAGACCACGG GCGGAGGAA TGGAGTGGCA TCCCTGGGGG GAGTTAAGAC  
 ACACGAGGTT TGCAGTTTCA TTTTGTTC GAATCAGTTT GGCCATAAAA ATGGGACT

SEQ ID NO:2342: (Length of Sequence = 316 Nucleotides)

CCTGAACAAG GTCGTGGTGG TGTGGAATTC TCCCAGCTG CCATCAGAGG ACCTTCTGTG GCCTGACATT GCGTCCCA  
 TCATGGTGGT CCGTACTGAG AAGAACAGTT TNAACAACCG ATTCTTACCC TGGAAATGAA TTGAGACAGA GGCCATCCTG  
 TCCATTGATG ACGATGCTCA CCTCCGCCAT GAGGAAATCA TGTTTGGGTT CCGGGTGTGG AGAGAAGCTC GGGACCNCAT  
 CGTGGGCTTC CCTGNCGT ACCACGCATG GGACATCCCC CATCAGTCTT GGNICTACAA CTCCAACCTAC TCCTGT

SEQ ID NO:2343: (Length of Sequence = 380 Nucleotides)

GGAAGAGGAG GAAGGTGGGA CCTTCATCAG ACCACTCCCT TCCCCATCC TCCAGGAGAG GGGGCAAGGG CAACCCACCA  
 TCTACCCACT TACTAACCTG GTCCTAACCC CCTTACTGTG CCGGTGTGTG TCGTGTGTGG CACGCTCTGG CTGTTTGTCT  
 ATATGCTTAG CTCATCTAGT TCTCTCTCTT AAGGGGATGG GGGTCAGGG CTAGGGGAGG GGGCTGAGTT TCCCACTTT  
 AGGAGGAGGT GGGGGCTATT TCTATGCAAA TAGAAATCAG CACATTCTTC TACTTCCCT TTCTCCACT CCCCCATAT  
 CTTTAAAGTG TGGAAAGCAGA AAAGGACCTG CATTTTTCCT ACAATTGAGG AGCTGACATA

SEQ ID NO:2344: (Length of Sequence = 282 Nucleotides)

GGGAATATAT TTAATGCAAT TTTATGAAA TTTATGTAA ATAAAGNTTT TNCAGTGGN CTAGAAAANC AGCTTGAATG  
 NCATTCAGCA TTTATGAAAG AAGGATGACA TCCCTNCCAC TTAATGCACA AACTTGGTAG CTTTGAGACA AATACAGTAG  
 CACAGTCCGT TTGAAGATTT GTCCAAAAA TTAGTCCATA TTTTAGTGGC TCAGTGTCAA GNGTCCCTC CCTGTGCCCC  
 CACTGTGCT TCTGCAGTGA TAGAAGGAT GAATGCTTAA TT

SEQ ID NO:2345: (Length of Sequence = 256 Nucleotides)

CTTTATAGGA AGCTGCAAAA GAAATGAGCA GAGCGNGATA TTTGTGGTAA GGGATACAAA GAACATACAA TTGTGTACTT  
 GAGAGGTTTC ATGGAACATT ATGACCCATC CAATGAGAC ATCAACATTA ACAACAAAA TTANTGAGG AAGAGCAGTA  
 TGAAAAATAT CTAATGCAGT GCTGTCCAAC AGAACTTTCT GTGGTGATGG AAATGTTCCTA TATCTTTGTG CTAATACAGA  
 ATCTACCAGC CACATG

SEQ ID NO:2346: (Length of Sequence = 437 Nucleotides)

GTTGAGATTG ATGCTTCINT TTTTGTGTG CGCTGCTGCC CTCGCGCTGG GAGCCGAGCC GGAGGGAAGG CGGTGGAGAG  
 ATGATTGCAG AGTTGGTGGC CAGCGCTCTG GGGCTGGCCT TGTATCTCAA CACCCGAGT GCGGATTTCT GCTATGATGA  
 CAGCCGTGCT ATCAGACTA ATCAGGACCT TCTCCAGAA ACTCCATGGA CGCACATTTT CTACAATNAT TTTTGGGGGA  
 CTCCTCTAAC CCACAGTGGC AGCCACAAGT CCTACGGCC ACTCTGCACT CTTCTTTTC GCCTGAACCA TGCCATTGGA  
 GGGTTGAATC CCTGGGAGCT ACCATCTGT CAATGTCTG TTGCAATGCA GCAGTCACTG GTCTCTTCAC AAAGCTTCIN  
 CAAGATCCTC CTTTGGTGAT TGGATACGG ACATTCA

SEQ ID NO:2347: (Length of Sequence = 406 Nucleotides)

CCCGGCGCC GCTTCCGCC GGGGCGAGAC CCCCAGTTC AAAATGAGCC TGTTTGGAAC AACCTCAGGT TTTGGAACCA  
 GTGGGACCAG CATGTTTGGC AGTGCAACTA CAGACAATCA CAATCCCATG AAGGATATTG AAGTAACATC ATCTCCTGAT  
 GATAGCATG GTTGTCTGTC TTTTAGCCCA CCAACCTGCG GGGGAACCT TCTTATTGCA GGATCATGGG CTAATGATGT

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TCGCTGCTGG GAAGTTCAAG ACAGTGGACA GACCATTCCA AAAGCCCAGC AGATGCACAC TGGGCCTGTG CTTGATGTCT  
GCTGGAGTTA CGATGGGAGC AAAGTGTTTA CGGCATCGTG TGATAAACT GCCAAAATGT GGGGACCTCA GCAGTAACCA  
AGCGAT

SEQ ID NO:2348: (Length of Sequence = 363 Nucleotides)

GGCCTTTCAA GNAGCGGCGG ANTTCCGCGA CCGCTGTAAG GAGGTACAGC AGATCCGCGA CCAGCACCCC AGCAAAATCC  
CGGTGATCAT CGAGCGCTAC AAGGGTGAGA AGCAGCTGCC CGTCTGGAC AAGACCAAGT TTTTGGTCCC GGACCATGTC  
AACATGAGCN AGTTGGTCAA GATCATCCGG CGCGTCTGC AGCTGAACCC CACGAGGCC TTCTTCTGC TGGTGAACCA  
GCACAGCATG GTGAGTINT CCACGCCCAT CGCGGACATC TACGAGCAGG AGAAAGACGA GGACGGCTTC CTCTATATGG  
TCTACGGCTC CCAGGAAACC TTCGGCTTTC TGAGNCAGCA GTA

SEQ ID NO:2349: (Length of Sequence = 332 Nucleotides)

TCCTCTACT GATGCTTTC AGTAGATTCA GAAGTGATTG TGGCAACAT AGTATCTTGA AGGAAGAGAT CGTGTTTTGA  
TTAGCATCTC CGAGCGCTAG TTTTGTGTTT ATGPTCATGG TATTGAGGAA ATAAAGATCA ATTTGGACTT CTTGCACCTG  
TTAATACATC CTAGTTCTG ACTGCAGCAA AATGACTCTC AGTGCCCCIT TCTCTCTTA GTGATGCTT AAGATGACAG  
CTTCATTTCC TTTTAATTAT TATCCACCTT CTTCCTCATC TTCANTTGT TTTCAAGTG AGGGACTTG CCTCTACTGG  
GACTCCACTG GG

SEQ ID NO:2350: (Length of Sequence = 339 Nucleotides)

GAGATGGAGT CTCACCCCTT CGCCAGGCT GGAGTGCAAT GGCACGATCT CAGCTCACTG CAACCTCTTC CTCACAGGTT  
CAAGCAATTC TCCTGCCTCA GCCTCCCGAG TAGCTGAGAC TACAGGCGTG TGCCACCATG ACCGGCCAAT TTTTGTACT  
TTTAGTAGAG ACAGGGTTTC ACCATGTGG CCAGGCTCGC CCCGAATCC CGACCTCATG ATCCACCTGN CTCGGCTCC  
CAAAGTGCCG GGACCACAGG CATGAGNCAC CGCACCAGA AAAAGCAAAT CTCTTAGTAT TTTTCTCTT GTCCAAAAGG  
TTCTGACCAT GTTCATGAC

SEQ ID NO:2351: (Length of Sequence = 354 Nucleotides)

AGAAGGACCT GAGTTGTGGC CAACAACAGG CTGCAGAAAG GCAATGCCAT CCTGAAGATT TCTCAACTAA GAGTCTGCAC  
CCATGACAGC CCACCGAGAC CCTCGCTCCA AGTTGTGGA GAAAGGGAAC CGCTTGGA GCATGTGGAA AGACCCACG  
ATGAGCAGCA GACACAGCAA CGCTGCCTCC TACATCTCGA CAGCATCTGT GTAAGACTCG CTAGCATCTG GTGCACACAC  
TGTATGAGAC AGCAACAGCC AGAACAGACA GCTTTACGTT GATGAACACA CAGACGGTGG CGCATGTTCA GAGATGCCGA  
GGGACGCCG CAGTTCCAA AATCACTCT GCCC

SEQ ID NO:2352: (Length of Sequence = 378 Nucleotides)

GTGTTTGTGTT TAGTGGAAAC CTCAAATCAA AAACAGGCTC ACGGTCTGAA TAGTCTTCTG GTCTAAGCAA CTCAGCACCA  
GCGCGCCAA GGGGAGGCG CCCTGTCTCT GGCCCGGGA AGAGACGCG CTCCAGCCCC GACGCGAGCC CCATGGCGCA  
CACAGGCAGG CAGAGCTCGA GGTNCAGGCG GCTGCCCTGC GGGAGTGC TGGGGAGGG TCCCTINGCTG AGGCTGCACC  
AAGGGCTNGG GAGAGGCCCA GGAAGGGGAG AGCGAGCTGN GAGCTTGGGA TGGGAGCCGT GAGGTGGGA TGGTTTNGCA  
GAGGGGCAGA GCCAAGGNCA GAGGCAAGTT CTNGGGCCCC ACAAGCTTAT GGTGGCA

SEQ ID NO:2353: (Length of Sequence = 369 Nucleotides)

CTGCCTTATA TAATGTGGAT GCTGGGCACA GAGCTGTCAT CTTTGACCGA TTCCGTGGAG TGCAGGACAT TGTGTTAGG  
GAAGGGACTC ATTTTCTCAT CCCGTGGGTA CAGAAACCAA TTATCTTTGA CTGCCGTCT CGACCAGTGA ATGTGCCAGT

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CATCATTTGGT AGCAAAGATT TACAGAATGT CAACATCACA CTGCGCATCC TCTTCGGGCC TGTGGCCAGC CAGCTTCTCT  
GCATCTTCAC CAGCATGGGA GAGGACTATG ATGAGCGTGT GCTGCCGTCC ATCACAACCTG AGATCCTCAA GTACATGGTG  
GCTCGCTTTG ATNCTGGAGA ACTAATCACC CAGAGAGAGC TGGTCTTCA

SEQ ID NO:2354: (Length of Sequence = 363 Nucleotides)

GGAGAGGGAT TGGCATCGGC ACCATGGAGC TCCCAGGGCT TAGAGATGGA GCAAAGTTGG CCTCACCTTG GGGAAOCCATT  
CCTGCTCTCG GATACTGGAA GACATTCTGC TGCATCTNAG GATTGATTCC AGTGCCAAAC TGTCTCTCTA TGTTCCTTGT  
CATGCCCTTG CTCACCATGC TGTTCGGTGT GGCCAAGGAT GCTTCAGGAT TTNCTGCTAG TTGTGAAAC GGGCTGGTAG  
AAGCAGGTGG GGTTCCTGGG ATTTGTACCA TAGTTTNGTG GATAGGGGAA TTGCTGTGGA GCACCTTGAG GAAGAGGGGG  
GTINCCCAIT TNAACTGGTA GTCCAGATGA GGGAGGGAGG GTT

SEQ ID NO:2355: (Length of Sequence = 403 Nucleotides)

AACCAGGAAT GGAGGGCTTC CTCATGCTG AGGTAGAGTA AGACGGTGTG AGGGGGGGGA CCGGGGGGCG GAGATGAGCA  
CCGGCCGCAC TGGGGCATCA TCCNGGCCCA CCGGGGACGA TGGGCCGTGG GAGGGCTCAG GGCGGTGTGG TGGCCACACT  
GCGAAGAATG GATTTTAAA ACACCTCATA GCCCCGANIT TTTTCAGCT CCCTCTTCGT GGACACAAC TCAGGGCTCC  
CTTGTCAC TGCTTCGGGG GTGGTCTCCC CACTTCGAGA GTCTGGTCTC CACAGGACAC CGTCTTCCC TTCCCTTCCA  
AGGGGCAGGN CCCACGNACC CTCGCCCAA AANTAAAGGA GCCTTGTGTT TGAACGCC AAGGCAAGCC GTCCAGGGG  
GCT

SEQ ID NO:2356: (Length of Sequence = 456 Nucleotides)

GAAAGAAAA CAATTGGTCA AACCACAAGA ACACGTGTAC CTGAGGCTG AGAAGCCAAT TCAGATTCAA CCTTGAATTT  
GTTTGATTTG GATTAAGTGA CGCAAAAAGT CAATAGAACC ATGTGANTTC AGAAATCATA AAGTGTCACT ATGCCAAGA  
AAGAGTACA TGTGAATCAA GGTAGATAG AAAACATCAA GCCAAGAAAA CAACACANTT CACATAATTT TTTTGGCCCC  
GACAAACAT TTAAGCAGTT AATTTTGT TTGTTTGT TTGTTTGT TGAAGAACAN TTGTGGTCTT TTACATTTTC  
TTGGTGGGAG AGCAAATCTT GATCAGCATT AGTGCTGTGA AATACTTTTG GNTTATCATC CCCCAGTNT AGGGTGAGAT  
CATGAGGAAA NTTTGGCAG TCCTTCTCTC AGATTNGIT CACTNAAANT GCTTGG

SEQ ID NO:2357: (Length of Sequence = 412 Nucleotides)

CCACCCCATG CCAACAAGC CATATTGTCA ATAAATAAGG AATAACTGAA ACCAGACCTT TTAGGAAGAG ACAGAAATTC  
CATTACCCAG GAAACCCTC AGTGAAGATG CTGATAGTTC TGATATGTTT TTATGCCCTG CCCCCTTCCC CCAAAAAACC  
ACCTGCAGAA CCAAATGTTT CTCTCAAAG CCCATCAGCA CAGATTGATA ATAATATCAC TATCAAGCCA GGGCTAGTGC  
TTCTCTACAT ACTGFACTGT CACAGGTACA AAGCAAGCCC TGGACAGATA CTGTCTCCCT GCCCCACAA ATCCAGGGAG  
GAAAAAGACC AGGGANGCTT TGATTTCTTT GGGATTTAAA CCTCATGTTT AAAAAGGNTA ATAAAGGTGC TCGTACTTGT  
ATCTTCTTCC CT

SEQ ID NO:2358: (Length of Sequence = 399 Nucleotides)

AGATGGCAGC AGGTTCAAGT GGGGCCCTT GGATGCTTAA GCCTGGGGAC GACTACAGCT ACAATCAGTT TTCCACATAT  
GGCGATGCCA ATGCCGCTGG TGCTTATAT CAGGATTATT ACAGTGGTGG CTACTATCCT GCACAGGACC CGGCCCTGGT  
CCCCCCCCAG GAAATGCCCC CAGATGCCTC CTTCATCGAT GACGAAGCAT TTAAGCGGCT GCAGGGCAAG AGGAACCGAG  
GGAGAGAAGA AATCAACTTT GTGGAGATCA AAGGTGATGA CCAGCTCAGT GGGGCCAGC AATGGATGAC TAAGTCATMG  
ACAGAAGAGA AAACCATGAA GTCATTGAGC AAAAAGAAAG GTGAGCAGCC AACAGGCCAG CAGCGGCGGG AAACACCAAG

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SEQ ID NO:2359: (Length of Sequence = 352 Nucleotides)

CTTCATTAAAC AAGCTGCGAG AGAAGCTGGG TTGCCAGGAC GCCTTCCCCG AGGTGTACGA CAAGATCTGC AAGGCCGCCA  
GGACTGAGCT GGAGCCCGCC TGGAGAGACA GACACGTGTG AGTGGTCAGG CATCTTCCCT TCACTCAAGC TTGGCTGCTT  
TCCTAGATCC ACACITTTCAA AGAGAAACCC CTCAGAACT CCCACCCTGA CAGCCCAACA CCACCTTCCT CCTGGCTTCC  
AGGGGGGCAG CCCAGTGGAA TGGAAAGAAT GTGGGATTGT GAGTCAGACA AGCCTGAGTC CAGTTNCCCG TTTAGAAGTC  
ATTAGCTGTG TGAICTGGG TGAGTCCCTT AA

SEQ ID NO:2360: (Length of Sequence = 359 Nucleotides)

TTTTTTTTCAG CATAGTCATC TTAGCTTTAT TGAGTAAGGC ATCCCAATCT CTGCTAAGAT TCNCTAAAT GAACGGCTGA  
TTTTCTGCC AAACATGCA TTGGTCAAAG AGAAATCACC ACCTGGCCAC CCCATTCTGT CCCCTACAG GACACTAAGG  
GTCTTACAG ATAAAGGGAC GATGCATTCA TGCTGGAGA ACTAATCACA CCTGATTCT CTGGGATCTA AANTAATGTC  
AAATTTTGAT TCACTTTATG TAAAGAAAA TCCTTTTNTT TTINTGCAA CCNCTTTCAA GANCAATGCT GCCCATCCCA  
TGCAAGATGT TGTGTAAAG CCANCTCTG GTATACTAA

SEQ ID NO:2361: (Length of Sequence = 437 Nucleotides)

CTCCAGGATT CCAATCCAGT CCGAACTCAA CACGAGGGGT GGCACCTACA GGCTGGGGTC AATCTGGAAG ACTGCCTGTT  
GTATGGCCTG GCAACTAAAA AATGTTTTT ACATTTTTAA ATGGTTAACA AAATTAAAT AAGAGAATAT TTCATGACAT  
CATCAAATTA CAGGAAATGC AAATTTCAGC ATCTACAAAT ACAGTTTGAT TGGGACACAG CCACCCTCAT CCGTTTGACG  
GCTATCCCTG GCTGCTTACA GGGTCCACAT AGTCCATAAA GCCTGAGGAT ATTTACTATC TGGCCTTTTA CAGAAAAAGG  
TCCCCAAACA CTAAATCTGA AATGTTTTGC ATCAGAACCC CTTGTGGGGC TTGTTAGGAA TGCAGCTCCC TGGTCCCA  
NCCAGTCTCT GGATTCACTA AGTCTGGAGC AGGCCCT

SEQ ID NO:2362: (Length of Sequence = 317 Nucleotides)

CTTCTCTGGA TGTGCCTGGG CTGGACTGG CTAGAATCTT TCTCTGGACT NTGTCATGTA CAGTGNCTCC ATCCTGGAGG  
CAAGAGAGTT GGGAGTGGCT CGAATCANAG CCGTGCCCAA GATATCCCTN CTGTTGCATC GTTTGAAGCT GACGTCCGT  
GTCNTACAC TGCTGCCACT GTGTNTCCT CQNTCTGCTT GCTGTGCTT CAGGCCAGN CCGTCTCTG CGTGACANCC  
TTATCCTTAC CCTTGGAAAC CCAAGGCCAA GTTGGTTCAA ACTGTTGGAG AACAGAGTTG GCCTGCATCT TGAACA

SEQ ID NO:2363: (Length of Sequence = 412 Nucleotides)

GTCAGAGTNT TGATAGTTCT ACTGGGAGAC CACAAAATGA CATGGTCCAT CCTCTCCTT ATCCAAAGAT GCATGGTTAA  
AATAATATAG ATTAGGAATC ATCGTTACCT CCAAACAGIT AATTCAATTC AAATTTTATG CCAGACTGG TTTTAAAGA  
CATTTCTGTC CAAAATTTT TGGAAGTAAA CACATTAAGG GTAGGTGTGG AGAAGGATTA ATGGATTCTT TTTTACTC  
ACATCTGTTT TGGAAATATA TTTTATGCAA TAAAGCATAA ACTAACAGGT ATACTTATAA ATGTCTGGTT TTAGAAACAC  
TAAAGATCT CCAATCTTAG GAGGCCTTAA TTTGAAACTC TGCTTTTATT TGCTGAAGT AGTGGCTAAC CTGINTAGGC  
ATCTCAGAG GG

SEQ ID NO:2364: (Length of Sequence = 334 Nucleotides)

GAAATGATTT AATATTAGGA AAGGCAAGIN CCTCGAGACA TTTATTTAAG CTAATCTGTC CTTGATTTT GACTTTTCTG  
TTCATTACAC CCAGCCACAT TAGCCTGCAC CATTAATAAC ATTGAATCAA CCTCTCTAT TGGCATAGAC AATACATCTG  
CCTGTGTCAC TACTCTATCC TCAGCTTGGT ATTTCTCTAG CACAGAAGAA TGGTCCAGTA GATATGCTGA AGAAATACCT  
GAATGCATAA ATAAATAAGA AAATGAGAGA CTGAATGANT CAATTAATAC CTCAGTGTT ACCCTNGATA AGTTTCTAGA  
GAGGGGAGGT TCTA

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SEQ ID NO:2365: (Length of Sequence = 423 Nucleotides)

TTTTTTGCCA TTTAATAAGT ACTTATATGA TATTATATCA CACAGCACIT TACAGTATAC TCAAAGATAG CCTAAATTAT  
 GAATTAAACA TGCAAATATT TNCITTTCCA AAATGIGGAC AAAATGTCIT TTAGAGTGCT TTTGAACACT AGCCTTAGCT  
 ACTAAGCATT CATGGGTTTG ATCTTCTTG CGACATGACT TTAAGTAACT TAACAAAAA TGTAGCTGTA GACAGTAATT  
 GTTTGATAAA TATGANCAGT TTTAAATGG CACTGAATTT ACATCTTTAA TCATTTTAAT AGGGCCATCC ACAGCCTCTC  
 TTGTGTCTCT AATTCTCAAC CTCGGGGTCT TTTAAAGGCG TGGTAAAGCG TCAGAAAGTG NCCAGCTCCA TGTGGGGTCT  
 CTGTAAGNNG TCTATGTCIT CAT

SEQ ID NO:2366: (Length of Sequence = 294 Nucleotides)

CCAGCCATAC ACATGCCTTT ATTTAGATCA GCTTTTTTCA AAATGCAGCC AAACCTTATGA GTTGACAGC CCAAAGTAAC  
 CAGCCCTATT CCACTGAGTT AGTTTACCCC ACAGCAGTAG AACCAGTGC TGGTTTGTTT CCTGGCCCAT GGTGGGACAG  
 CGTGAAGGTG ATGGAGGGCT CTAGCACAAG GAGGTGCTGA GTGCCACCG CAGGTGCTTC TGCAGACAGC CTAGAGCAAG  
 GTAAGCAGGA GCACTCGNIT CAGAACCGAG GCGGCTCGGA CCAGAGGGCA GGCA

SEQ ID NO:2367: (Length of Sequence = 393 Nucleotides)

ACGGACAGAG CGAAGGGGAG AGGATGGTAG TGCTGACTT CCAGTTTTTC GTGAGGGATG TGTTCAGCA TGTGGATTCC  
 ATGCAGAAAG ACTACCTTGG GCTTCTGTC TTCTTCTGG GCCACTCCAT GGGAGGCGCC ATCGCCATCC TCACGGCGCG  
 AGAGAGGCGG GGCCACTTGG CCGCATGGT ACTCATTTGG CCTCTGGTTC TTGCCAATCC TGAATCTGCA ACAACTTTCA  
 AGGTCTTGGC TGCAGAAAGT CTCAACCTTG TGCTGCCAAA CTINTCCCTC GGGCCCATCG ACTCCAGGT GCTCTCTCGG  
 AATAAGGACA GAGGTGACA TTTATACTC AGACCCCTG ATCTTCCCG GGCANGGGCT NAAGGTGTGC TTT

SEQ ID NO:2368: (Length of Sequence = 187 Nucleotides)

GATCTTGAAG TTAACCAGT GTTAGAAGTT TTGGTGGGA AGACAATINA GCAGTCTCTT CTGGANGTAA TGAAGAAGA  
 AGAGCTGGCT AACCTGCGG CAGTCAGCG TGAGTATGAA GAACTACGGA ATAGTGAACG TCCTGAAGTT CAACGACTTG  
 NAGAGCAAGA NAGGCGACAC CCAGAAG

SEQ ID NO:2369: (Length of Sequence = 341 Nucleotides)

GTATCTTTAG TAGAGGCGGG GTTCCACCAT GTTGGCCAGG CTGGTCTCGT ACTCCTGACC TCAGGTGATC ACCTGCCTCC  
 TCGGCTTCCC AAAATGCTGG GATTACAAGC GTGAGCCACC GCGCTGGCA CCATCAGTTT TTGATCCTGA TACTTGTCTG  
 TCTCTTGGT TCTCCTCATC CCTAATTTAA CCTTGAACAC AAAATTCAAC AGGTTTGGC ATATAGAATA AAGATTATCA  
 GGCAAAGGCG CACTCTTGAC CTAATGATAT ATCTACATTT CATTTCTGTA TCTATCAGCA ATATTTAATT TGCTAGAAA  
 TGATGAGAGG TTTAGAGGAG G

SEQ ID NO:2370: (Length of Sequence = 337 Nucleotides)

AGATCAAGAT CTCTCCAAA ATGCCAGTAT GCAAAGGACA CTGGGGCAG CCTCTCAACA TTTCTGCCT GACTGATATG  
 CAGCTGATTT GTGGGATCTG TGCTACTCGT GGGGAGCACA CCAACATGT CTCTGTCTT ATTGAAGATG CCTATGCTCA  
 GGAAAGGGAT GCCTTTGAGT CCTCTTCCA GAGCTTTGAG ACCTGGGCTC GGGGAGATGC TCTTCTCGC TTGGATACTT  
 TGGAACTAG TAAGAGGAAA TCCCTACAGT TACTNGACTA AAGATTCAGA TAAAGTGAAG GAATTTTTTT GAGGAAGTTA  
 CAACACACAC TTGGATC

SEQ ID NO:2371: (Length of Sequence = 320 Nucleotides)

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CGTGGCCGCA GAGGCAGCTG AGCATGAGGG ATGGAGCGTG CTGCTGTCTT GCAGGTGCCG TTAGCCCTGT TTTGCACTGG  
 TGGATTGATC TGCTCAGGCG CACAGGGAGA TGGCAGCA GAACCCGCG CCCAGCCTCG CTGAGGGCAT GCTCCCGCCT  
 CACCTCCAGA GGCTGTTGGG CGGAAGCGAG AGCTGCAGCA GTTGGGGCCA GCNTGGGACT GGAGGCCAG GTGAATCTTG  
 TGGGGCAGGG GACGGAGCTN AGGCTGTCCG GCCCGGGCCC TTCCACCCA AAGGCCCTAG AACCTTAGGC CTTCAATCTT

SEQ ID NO:2372: (Length of Sequence = 326 Nucleotides)

AGGCCTGGCA TGCGGCGAAA AGTTCCTGGA GAAGGCTCC CCTCCCAA AACACCCGAG AAACGTGGG ACCTCATTAT  
 TGAGTTTGAA GTGATCTTC CGAAAGGAT TCCCGAGACA TCAAGAACCG TACTTGAGCA GGTTCCTCCA ATATAGCTAT  
 CTGAGCTCCC CAAGGACTGA CCAGGGACCT TTCCAGAGCT CAAGGATTTC TGGACCTTTC TACCAGTTGT GGACCATGAG  
 AGGGTGGGAG GGCCAGGGA GGGCTTTCGT ACTNCTGAAT GTTTTNCAGA GCATATATTA CAATCTTTCA AAGTCGCACA  
 CTAGGA

SEQ ID NO:2373: (Length of Sequence = 361 Nucleotides)

AGCAGAGCTG AGGGAAGCG TAGGATGGCT CCAGCTTCCG GTCAGTGGCT ACATGGTCAG TTCCATGATG GCGTTGACGA  
 TGTCACITGT GTTGTNTCTC AGAGCCCGCA CGGCTTGGC CTTGGACACA TTGGCCTGCG CCATCACCAG CTCATGTCA  
 CGCAGTTCCA GCCCGCCTC GTCCACCTCT TCCTCTCTCT CTTCTTCTC TTCTTGAC TCCAGCTCA CCCGGGCTT  
 GGGTGCTGAC TCAGGACCA AGGCTGAGG CTCTGAGGNN ACCTTAACT TCTCAGCTGC GGCTTTGTGC ACTTGCTGGG  
 ACAAGGTCTT CAATCTTGGN CTCGCCAAG ACCACATAAG T

SEQ ID NO:2374: (Length of Sequence = 281 Nucleotides)

TGACTCTAGT CTGGCACITA TTGATGACAT TGAGAGGCTG AAATATGAAA TTNCAGAGGT GATGACAGAG ATGACAATC  
 TAACTTCCGT AGAGGAGAGC AAAACGACTC AGAGNACAA ACAGATAGCC ATGGGAAGAA AGAAATTCAT CATGNTCCC  
 AAAAAGGGAA TTCAGTTTCT AATAGAAAAT GACCTGCTAC AGAGTTCCCC AGAAGACGTC GCCCAGTTCC TTTATAAAG  
 AGAAGGCTA AATAAGACCG TCATTGGGA CTACCTGNGG T

SEQ ID NO:2375: (Length of Sequence = 391 Nucleotides)

ATGTTTAGTG CTTCCTTCAG GAGCTCTGGT AGGGCAGGTC TGGTGGTGAC AAAATCTCTC AGCATTGTGT TGTCTGTAAA  
 GGATTTTATT TCTCTTCAC TTATGAAGCT CAGTTTGGCT GGATATGAAA TTCTGGGTG AAAATTCITT TCTTTAAGAA  
 TGTGAATAT TGGCCCCAC TCTCTTCGG CTGTGACAGT TTCGTCTGAA AGATCTGCTG TTAGTCTGAT GGGCTTCCCT  
 TTGTGAGTAA CCCGACCTTT CTCTCTGGCT GCCCTAACA TTTTINOCIT CATTTCAACT TTGGTGAATC TGACAATTGT  
 GTATCTTGA GTTGTGTTT TCGAGGAGGC AACCTTTGTG GCGTTCTCT GTAAATTTCC CGAATTTGAA A

SEQ ID NO:2376: (Length of Sequence = 324 Nucleotides)

CCAGCCCTCC CTCAGCTGGG AACACAGCCA GGTCGCTCA GACCCCTGNN TCTGCACAAG GGGGGCCTGC CCCCTCGCCC  
 CAGCTATATA CAGCAGACC CATCTGTCTG GCGGTGACA AAAGCTGGA GCTCTGTGC CCAGTCAGGA GCGCTACAG  
 TCCACCAGCT GCGCGGCGG GTCCAGGGG CCACTGTGGT GCCAGNAGT TTNTCAAAAC CNAGGGCCCA GCGCCAGCTG  
 GCNCTNGCC AAGCCCCAGG CCGTTTGTCT GGGATGGAGC CTCCACACTG AGGCTGGTAA AAGCTTGAAC TCAACAGCAG  
 CAAT

SEQ ID NO:2377: (Length of Sequence = 357 Nucleotides)

GTTTATGTTT TTATTATGT ATTTTAACTG ACTTATTGT GTATCCCACT AGAACAATAC ATTCAATA TACTTGAGA  
 ACTGTGCCCT GTGCGTCATG GGAGCAGAGA ACTTGTCAG TGAATAGTTG TTGAAGAAAG GAGTAAATC TCCCCAAAC

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CCTAAGGCCA TCCTTTTCGT AGTGTGTGTC CCATAGGTAT GGCTGCTGAG CACCAGGGCT GCTCACCATG CTCCCAGAA  
GCAGAGTCAG GGAGGCAGAC AGCAGGGTTT ATTAAGGTGC ACACCCATGT CTGAGCCCCA GCTCTCTCCG NCTTCTGTGG  
GGAGGAAGCC CTCGGTCTT TCCGAGGAAC CTTCAA

SEQ ID NO:2378: (Length of Sequence = 454 Nucleotides)

GACGGGTCTT TCAATAGCAA GTTTTCACIT CATGACAAC ATCAGGAAGG TGGTAACAAA CAAATGCTTT ATCAGGCTGG  
ACTTCATTTC AAACCCCC AAAGCACAGA TCCATTACGC ACATTTAAG ATACCATCTA CTTACTCAG GTGATGCAGG  
CCCAGTGTGT CAAAACAGAA ACTGAATCT ACCGCCGTAG TCGAGCGAG ATAGTGGATC AGCAAGGGCA CACGATGGGG  
GCACITTAAT GGCAGTTGAA TGACATCTGG CAAGCTCCIT CTGCGGCTT CTCTGAGTA CGGAGGGAAA GTGGAAAATG  
CTTCATTACT TTGCTCAGAA TTCTTTGCT CCACITGTC CAGTAGGCTT TTGAGGAATG AAAACACGGT CTATATCTAT  
GGGTGTGTCA GATCTTCACT CGGATTATTC GATGACACTC AGTGTGAGGA GTCC

SEQ ID NO:2379: (Length of Sequence = 224 Nucleotides)

GGAAGAGACC TCACAGGTA TTAAANGTGT ATTTINIGGA CTTGGGCTTG GCTGGAATGC TCAGGGGTCC TGAAGATCCT  
ATTATAGCTT CCTTCTGTG AACCATTAAAG AAAAGATGSC GANAGTCAAC ATAACAGAG ACCTCATCCG TAGNAGATCA  
AGGAGCGGGG TGCCCTTAGC TTINAGCGGC GCTACCATGT CACTGINCCC TTTATCCGGC GGCT

SEQ ID NO:2380: (Length of Sequence = 274 Nucleotides)

AGGTTTGAAA TATCTTTTTC CAATAGATAA TCTTATTAC ATTAATACAG AATCATTTTA CATTCTTAAA TCAGACACTA  
ATAGATGCTT TATTTTAGTG AATTATAAG GAAACAAAA AGGAACTGT TGAGAAGTGT TCTTCATTAA CCNGTCTAAC  
GNCACCCGA AGATCCNGA ACACATGGAA ACTCGNCAT GCINCCNGCA GAGGCTGGG AATGGGGTIT CTGCTCTCAC  
TGAATGGTGG GGAACCTTCA ACTGCTTAGC CTGT

SEQ ID NO:2381: (Length of Sequence = 312 Nucleotides)

GCACAAACAG TTTTATTGTA TGANCCACAG TGACTAACAG GNCAGAGA CAGTGCAGAT ATTCTGAAGA AGGCACTGNG  
GGAGGTAAGG GGGTATCACA GCAGGCAGCC TCCTCTGNT CTNCCCAGT TCACAGATGA GTTCCAGGCA GGAAGTCTCT  
GCAGTCAAC CACGGCGGCC TCAGAGGGAC AATTINTTCC CTCTAGAAG CCINTTCCAG TGTTCACTGG ATGNTTTGAG  
GACAGNTCTG GGCAGAGGAG GTGACTCTGT GAAAGATGCT ATCTTAAGAT GGGGAGACTA GGCTGTGAGG AG

SEQ ID NO:2382: (Length of Sequence = 402 Nucleotides)

CTTAACTAA CTTGAAGCA AGTAATGTCA ACTTTGAGCA CTTTGTGAG TTTTGAAAA TCTTATTGT TGCTGCACAG  
GTTAATAAAT TATCAATTTG TAATTCAGCA TGTTGGTCAG AGACACGGTC ACTGATTCAC ACCCAGTCCC TGCCACAGAC  
CGTCTCAGAC ACGCACAGTG GGCTGCTGC ATGATTCACA CCCAGTCCCT GCCACAGACC GTCTCAGACA CGCACAGTGG  
GCCTGCTGCA TGCGTGTIAC CTGGCTTTTG GCTCCACGCT CACTCATAGC CATGTCCACA TGGGGGGCTT GCACACAGGA  
TCACTCACAT ATGTACATGT ACCCACCACA AACGTGCAAA GCTCCTTGCA CACATGCATG CACACAAAG TGGTACACAA  
GT

SEQ ID NO:2383: (Length of Sequence = 406 Nucleotides)

GACCCTTTC ACTAGCCCT CTGGGTTTG CAACATGCTT TCTCTCTAC CTTCTATTG AATGAGAAAA AACAGCCCAG  
CCATTTTTTG CAAACAGCAA AGCACCAGAG TGATGATGGC TTTGCTCATC TCACTTGACT TTCACAGTAA CTCAGTTTGA  
TGTAGGCAGT CCAGGCATTA TTATTTTCAT TTTACAGATG ATGCAACTGA GGCTCAGTGT GGTGAACAT TTGGCTCATA  
GCCACACAGC TGATAAGCAT CAGGGACTTG GGACCTAGGN CTTACATTT CAAGTCAGCT GTATCTGTCC CCAAGCCCCA

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CCAGACTTCA TGTGAAGGTG GCTGCTCTG GGGTGTGGT GGCTGGAGAG GCAGACTTTG AGGCTGCCAT GCTCTTATTT  
TCAGAT

SEQ ID NO:2384: (Length of Sequence = 165 Nucleotides)

TTAAGACAAT AATGAAAGAT TCTGTACAAA GTTACCAAGT CTACAGGCTG AGCGAGCCAA GGGTAAAGTG GGCTGTATCC  
TTGTGGACGA ATGTCNCCCG GAGAGCTGGC CTCACCTGGG GGAGGCACGT TGAAAAAGTA CACATTTACA GGGCTGGGA  
AAGGC

SEQ ID NO:2385: (Length of Sequence = 297 Nucleotides)

GGTTTINATT CATCTCTTC TATTAACCTC TCTAAAGGAA ATTGGGCACC TGTAATCCCA GCACTTTGGG AGGCTGAGGT  
GGGTGGGTCA CTTTINAGGTC AGGAGTTCAG GACCAACCTG GCCAGCATGG TGAAAACCCA TCTCTACTAA AAATACAAAA  
NTTAGCCAGG CTGGTGGTGT TCGCTGTAA TCCAGCTAC TCAGGAGGCT GAGGCAGGAG AATTGTTTGA ACCTGGGAGG  
CGNGGTTGC AGTGAGCTGA GATCGTGCCA CTGCATTCCA GCCCAGGGTG ACAGAGT

SEQ ID NO:2386: (Length of Sequence = 290 Nucleotides)

AAAAAATAAA GTGAATTTAT TGGTTCATGT AACTGGAAAG TCTCATGAAA ATGTCAGCTT CAGGAGAAGC TTGACCCAGC  
AGCTTCATGA TGTATGGAAA TACCTGGGT TTTTGTTCCT NCTCTGCTAC TGTGGTATCA GCTTTATPCC AAGTCTGGCT  
TCTTTGTGTG TTGCAAAATG CTTGTGCAGA AGAAGCCTGG GTCCATCTGT TAGGNITAAG TTTACTCTGT ATGCTGTAGT  
AGTGGCTATG ACAAGATTAG GAAGTGATT TCTCTCTCCC ATATTAAAAG

SEQ ID NO:2387: (Length of Sequence = 356 Nucleotides)

GTCTCTGTGA TTGTACATG AAATGCACAT CCAAAACGGG TGAATTGGAA ACGACCTATT AGGTACACAG GAGTCCGGCC  
CCTGGGGGCA AAGCCTCATC GATGCCACG GGCGGTGGCC AGCACTTTCC TTGGGCTGTG GCGTGTGCAC CCGGCCTCCC  
CAGCGGAGAG TCAGCTCACA CCCCAGGCCC TTTAGCTCTC TGGCAGCAGC TCCCAAAACG CACTTGAGGA ACCAATAATT  
CCTTGGGGGT TAATAGCTGT TCCCCAAGAA AAGGGTTCTG TGGTCAAAAT AAGTTTAGGA AAACATGGGT TAAAGAAGGT  
TTAGCAAGA AGCTTTTCTA TAGGGCTTGT TCAGAG

SEQ ID NO:2388: (Length of Sequence = 226 Nucleotides)

ATTATTGGTA TAAAACTTA AGACGGCATT AGAATCTTA AGAAAAGGTG TAAAAITTA AAAGATGTGC AAACAACAAA  
GAATGCCCGA CCTGAACCA GACCTAAAGC ACCTTCCANT TCTCCACAC ATCATGCCCC AACACCATCC AGCCCAATCG  
GACACCAGGA CAGTGAGGGA CGGGTGGCTG TTCAGTGGGC AACAGATCTG GAAGGAAAGA TTTTCA

SEQ ID NO:2389: (Length of Sequence = 250 Nucleotides)

CCCAGCTAGG CCTTGGNATG GCTNCAGTGA GGAGAAATCC CGGGAACCTGT ATTGACACAA AGATTCTNAT TGCACTTGTA  
TTTNTTATTT AAAGTTTGCA TGGTTTCTAA TAAAGGATTG AACATAAGT TTGTAGTGAA ATGGCCTGGN AGATTCCAAG  
GGCTTCTCTN GAAGGGGGAT TNGCTGCAN TGTAGATTIN CCTCTGAAGG AGGCTGGCCC CAAACTTGGN CCTCCTCATG  
ACCCCTCTCT

SEQ ID NO:2390: (Length of Sequence = 371 Nucleotides)

CCTTTTCTG GAGAACGGGG TCTGCTATA TTGCCAGGC AGGTCTCGAA CTCTGGGCT CAAGCTATCC TCCCGCTCT  
NAGCCTCCGT TTCCAGAAG TCACCAAGTA ATATCTGNT TTCATCAGT GCAGTTAAGA TTTTNTTTC TTGAAATACT  
GGTTTCAAAA CAGATCAGAA TTACCTGGG AGCTTGTTTA AAATATAAT GCCCAAGGC CAGCTCCAGG ACATTCTGAC

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TCCATAGGTA TGTGGTAAGC CCAGGGAATC CAGGTAAGCT CAGGTAAGCC CAGGGTAAGC CAGGGAATTG TTAACAGGAA  
GCTGGTGGGT TTCTGGCACC TNGACANCGA CTGAATCTTA GGTAGCTTGC C

SEQ ID NO:2391: (Length of Sequence = 200 Nucleotides)

CAGTTCAGCA GGCTATGAAA TTGTGGGC ATATAAANA CTGGAACCTT CAACAGGGTG GTTTTGAAAC TAGNGCATT  
ACCAATAAAT GNCAACCCA CAAGGACAGT GCATTGTGTC ACATAGANGA TCTGGAAAGT ACAGCTGTAA ACTATAATCN  
CCAGTCTCTG AGTTAGCACC TTCCACGNT AGTCTCTTAC

SEQ ID NO:2392: (Length of Sequence = 234 Nucleotides)

TCGCTGAGGT GTTTGGTTTG GAATAGGGAA AAAGGTAAGA GACTAACGTG GAAAGGTGCT AACTCAGAGA CTGGAGATTA  
TAGTTTACAG CTGTACTTTC CAGATCTTCT ATGTGACACA ATGCACTGTC CTGTGGGTT TGTCAATTTAT TGGTTAATNC  
TCTAGTTTCA AAACCACCT GTTGAAAGTT CCAGNTATTT ATATGCCCCA CAAATTCAT AGCCTGCTGA ACTG

SEQ ID NO:2393: (Length of Sequence = 337 Nucleotides)

TCCAGAGGCG GATTGAGAAG AAAGGAGATC CACATGAAAT GAAGATCACC TCTGCCTATC TACAGGACAT TGAGAATGCC  
TATAAGAAAA CCTTCTCACC TGAGATGAGT GAAAAATGTG AGGNTTTACA GTATTCTGCA AGGGAAGCTC AAGATTCAAA  
AAAGGTGGTA GAGGACATTG AATACCTGAA GTTCGATAAA GGGCCGTGGC TCAAGCAGGA CAATGCACT TTATACCACC  
TGCGATTACT GGTTCAGGAT AAGTTTGAGG TGCTGAATTA CACAAGCATT CCTATCTTIN TNC CGAAGT CACCATTGGA  
GCTCATCAGA CTGACCG

SEQ ID NO:2394: (Length of Sequence = 211 Nucleotides)

CAAATGTTA TTTTATATAC AAAGAATTAT CATGGTTTIN CATTGAGTAG ATGCCCGGA TAATCCTCTG AAGGAAGAGC  
ATTTAGTCCA ACTTAATGAA ACGGATATCC TTGCGTACT GACGGAAACA CTGGCGGCAC ATATTGAGGC CATATTTCCG  
GATCANACCG TGCCGGTTTG AACAGACACG ACAAGAGCGA GAACCCCTGCC C

SEQ ID NO:2395: (Length of Sequence = 335 Nucleotides)

CTGAAAGCTG TAACACCCCTC AGGTAATAAC AAAAGGGATT TTTATTTTAC AGCTAAAGGG AAAATAGGTG GAGAAGTTAA  
AAAATAATGT CTGATCCTGT TCCTAAGTTC CAAACTATAG CCAACACTCT GATGCTGCTC TTTTCTTGT AGGACCAACC  
GTCCAGTTT GCCTGGGACT TTCATTTT TACAGAGTCC CAAATCCTAG GAAACTGGAG CAACTGGTAC AACTGGTCAC  
CTACTCTTGC CCTCTGGTA AATCAAGNCA ACTGTGACCA TCCAATGTGC CATCTTACAG GGNAAAGTTA TAACCCACTA  
TTCCCTATA ACATA

SEQ ID NO:2396: (Length of Sequence = 223 Nucleotides)

AGGGAGATCC AGCTCCGTCC TGCTGCAGC AGCACAACCC TGCACACCCA CCATGGATGT CTCAAGAAG GGCCTCTCCA  
TOGCCAAGGA GGGNGTGGT GGTGCGGTGG AAAAGACCAA GCAGGGGGTG ACGGAAGCAG CTGAGAAGAC CAAGGAGGGG  
GTCATGTATG TGGGATTACA TTTTTTTTTT AAAGAAAGAA TAAATTAATT GTGATTAAAG TTG

SEQ ID NO:2397: (Length of Sequence = 379 Nucleotides)

CCATTACAAA GAATGTGGCA ACTTGCTTNT NCCTAAAAGG AGGAATTGGA ACTAGAATGT GTGACTCTGT GGGGACTGCA  
TAGGTTTGT AATTGACCTA TAGCTAAACC TTAATGTGTT TGTGTGCTA TACATTGCTT TCCGCATTC AAGACATCCA  
GACGCTATTA CCAACATTTT CCTGTGCAIT AACCTCTGCA TGTGAAAAC TTTAACAGTT ACTGAACATAT GTAAATATGT

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GAATTTTTTT ATTTAGGTGG ATGCATTTTT NGTCTGTTTA CTGCTCTTCT CAGCTTTATT CAATAAACTT GCATTTTAAG  
GGTGTATTG GCAATTTTAA CTTAAATGT GCATCATGAT GGAAGGTGCA GACCTTTTT

SEQ ID NO:2398: (Length of Sequence = 421 Nucleotides)

GACAGGTG TCTTACCCAC TGGNTCCCAG TCATGCTGTA AACAGGGCTT GCTTTGGAGT CTGTCAGACC TGGCTTAGAC  
CCAGGCTCTG ACCAAATGGG TGAGTTATGC AGCTACTTGG TGGCATCTAA TACCCATATCG CAAAGGACTG CCGTGAACAG  
GAAGGAGGTG TCAAATTTGG CAGTGCCTGA TGAGGTGAGG CCAGGACCCA GGAACCTCTA TTCCCTCCCA TGCTCAGGAA  
CAGTAAGTGT TCTTCTATCT GCAGAGGTAG ATGCTTAGCA CATCGTGGT ACTTCACTCA TGATTGCTAA AATTGAATT  
TGTGGATAAA GTCATTTCAA AAGTCAGATT CTAGGACCAA AAATACAATA TCTGTCCAAC ATGGAAGTGT TAGATCATGG  
TTTTTCCTTC CAGCCCCAGG A

SEQ ID NO:2399: (Length of Sequence = 392 Nucleotides)

GATAAGCTTG ATATCGAAG TNCCACAATG GGTGAGTGT ACCAGGAACA CCATGAAGAA GACTTCTTTC TCTACATTGC  
CTACAGTGAC GAAAGTGTCT ACGGTCTGTN AAGCTGCTGC CCTGAGCTG GAGGGGGGTC TCATTCTACA AAGAGAGAGG  
TGGCCCCCTT TTCTTGACCT CCTCCTCCTT CAAGCTCAAA CACCACCTCC CITATTCAAG ACCGGCACTT CTTAATGTTT  
GTGGCTTTCT CTCCAGCCTC TCTTAGGAGG GGTAAATGGT GAGTTGGCAT CTGTAACTC TCCTTTCTCC TTTCTTCCCC  
TTTCTCTGCC CGNCTTTCCT ATCCTGCTGT AGACTTCTTG ATTGTCACTC TGIGGTCAAC TCCAGTGGAT TG

SEQ ID NO:2400: (Length of Sequence = 366 Nucleotides)

CTGGGGAAGG ACTGGCACAA GTTCTGCCIN AAGTGGGAGC GCTGCAGCAA GACGCTGACG CCGGGGGGCC ACGCGAGCA  
TGACGGGAAG CCGTTCTGCC ACAAGCCGTG CTACGCCACC CTGTTGGAC CCAAAGGCGT GAACATCGGG GCGCGGGCT  
CCTACATCTA CGAGAAGCCC CTGNGGAGG GCGCGCAGGT CACCGCCCC ATCGAGGTCC CCGCGGCCC AGCAGAGGAG  
CGGAAGGCGA GCGCCCCC GAAGGCCNCA GCAGAGCCTC CAGTGTACC ACTTTCACCG GGGAGCCCAA CACGTGCCCG  
CGCTGCAGCA AAGAAGGTGT ACTTGGCTTG AGAAGGTGAC GTCTCT

SEQ ID NO:2401: (Length of Sequence = 385 Nucleotides)

CATCCACCA GGGATTAGG TTCAAGTAGC AGCTGCTAAC CCTTGCACCA GCCCTTGTGG GACTCCCAAC ACAAGACAA  
GCTCAGGATG CTGGTGATG TAGGAAGATG TCCCTCCCT CACTGCCCCA CATCTCCCA GTGGCTCTAC CAGCCTCACC  
CATCAAACCA GTGAATTTCT CAATCTTGC TCACAGTGAC TGCAGCGCA AGCGGNCATC CACCAAGCAT CAAGTTGGAG  
AAAAGGGAAC CCAAGCAGTA GAGAGCGATA TTGGAGTCTT TTGTTTATT AAATCTTGA TTTTTTTTTT TCCCTAAGAG  
ATTCTCTTT TAGGGGGAAT GGGAAACGGA CACCTCATAA AGGGTTTCAA AGATCATCAA TTTT

SEQ ID NO:2402: (Length of Sequence = 392 Nucleotides)

AAAGAACTTG GTATCTCTAT TAAAGTACAT GANCTCCAA GGAAATAGA GCGATTACT CTCTCTCAAT CAGTGCATAT  
TTACAAGAAG CACAGAGTTC AGTATGAAAT GAGAACACTT TACAGATGTT TAGAGTTAGA ACATCTAAT GGAAGCACAG  
CAGATGTCTA CTGGAATAT ATTACGCGAA ACTTACCTGA AGGGGTGCC ATGGAAGTAA CAAAGACACA ATTAGAACAG  
TTACCAGAAC ACATCAAGGA GCCAATCTGG GAAACACTAT CAGAAGAAA AGAAGAAAGC AAGTCATAAA GCCTTCAGGG  
AGGCCATTTT TGCTAAATTT TTGAAATGAG GGTGGGCCAG ATGAGTATGT TTAAGTGGAG AGTGCTTTCC AG

SEQ ID NO:2403: (Length of Sequence = 179 Nucleotides)

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TCATTAAGTT ATACTCTTGG ATAGGAACAC TGAGGAAAAA TGAAGATGA GATTTGCAAT AGGGATTCTC TAAITCTCAT  
GTTAATCTGT TTGTACCAT TTTTACTTGG TCCTTTGTGG ATCTCTTCTT TTTATTAGAT GATATTAAAG GGGATTAAAG  
TTGTATGTA TGAATGTC

SEQ ID NO:2404: (Length of Sequence = 399 Nucleotides)

TTCCCAAAGT GGTGTGAACA TTTTACTCTC TACTAACAG TGCATGGGAA GCCAGTTTCT CTATATCCTC TCCAACATTT  
GGTGCTGTCA ATCTTTTAAA ATTTTAGCCA TTTTGTGGT TGTATAGTGT TATCTCATG CAGTTTAAAT TTGCCGATCC  
CIGAATGTGT GTAGGTGTGT ATATGTATTA TATAATATAT ATATNAINCT TTCACTTATT TTGAAGTAAT TTCAAAGTTT  
CCAGAATAAT ATCAAGAACT CCTGTACTCC CTTGCCAGA TTCCTCAAT GTAATGTTT ATTGCATATG CTCCTATGCC  
CATCTCCTC TCTACTTATA GCTTGCATTA GTGTTTTCCT GGAACCNITA GAGATGAAGG TGGAAAAAG GATGCGGTT

SEQ ID NO:2405: (Length of Sequence = 404 Nucleotides)

GGAACAGAGT GACCTGACCA CCCTAACATC AGCTGCATAC CAGCAGAGCC TGACTGTTC CACAGGAACT CATCTCCTCA  
GCATGCAGGG GAGCCCTGGA GGACACAATC GCCCAGGCAC CCTCATGGCA GCTGACAGAG CCAACAAAT GTTTGGACCC  
CAAGTGCTTA CGACCCGGCA CTAGGTGGC TCAGCAGCTG CTTTTCAGG GACACCAGAG CATGGACAAT TCCAAGGCAG  
TCTGTGGT GCCTATGGGA CTGCTCAGCC CCCACCTCAC TATGGGCCCC CACAGCCAGC TTATAGTCTT AGTCAGCAGC  
TCAGAGCTCC TTCGGCATTC CTGTCAGTGC AGTTACCTAT CTTCAGCCAC AGCCACAGGC CTATTGCTGT GCATGGGCCA  
TTTT

SEQ ID NO:2406: (Length of Sequence = 280 Nucleotides)

AAGAGAGAAC ATTTTATTTG TCTATAAITA GGTAAACAG TTGGGTAAAA YCTTACTAAA AGAAAGTTAA GGTGTCTTA  
ACACAAGATA TATAATGNCA TAAATYAGTT AATTAAATTT YAATTAAAM CAGCTGCTTT GGAAATCCAA CATGTATACT  
TCAAAATAAT TTACCTAAAT AACTTATGAA AATGGATGT ATTGTACAAC TCATCTCTCC TTATAAAAGG NGAACAAAGG  
ACATAGGAAA GCTGAAAAGA AGCTAGATG AAGATACAGG

SEQ ID NO:2407: (Length of Sequence = 350 Nucleotides)

TCCAAGGCCA ATATAAATTA CAGTATGCAA AACATACTGA CTGGCTGAGG TAAAACGCAC TGCTCCTGCC TCAGTCACC  
ATGAGGGGAA ACACACATAT GCTTTTAAAA ACATCTGGCT TATAAAAAAA CATCCCCTAG AAAGGCCTCC AGAGAGGGGC  
TGTGAGGCTC ACCCTCTGCC GCGCTCAGGA GGACCCCGC GCTCAGCCCT GGCCCTCCA CTGCAGCCAT GGTGGCGCC  
TCCCCCTACT GCCTGCCAG GGCTCTGTCC AGGTGCTCT TGATGGTGT GAGGAAGTCC GTGGTGTCA GGAAGTGCTC  
GTTCAGCTC ACATTGCTGA GGCCGTGAAT

SEQ ID NO:2408: (Length of Sequence = 239 Nucleotides)

ATNGNTTGG GGTCCNAGA AATGGATGT CGGAAGAAGA AGAAGAAAAA AAATCAGCAG CTGAAAGANC CAGAGGCAGC  
AGGCCTGTG GGGACAGAGC CCACAGTGA GACACTGGAG CCTCTNGNAG TCCTGTNCCC GTCCACCACC AAGAAGAGGA  
AGAAGCCCAA AGGGAAGAA ACCTTCGAGC CAGAAGACAA GACAGTGAAG CAGGAACAGA TTAACACTGA GCCTCTAGA

SEQ ID NO:2409: (Length of Sequence = 331 Nucleotides)

TCTCTCAAG AATTTACAGC CAATCGACCG TCCTGTCTCT TTAAGGCTTA GGAAGAGCAG TGTGGCTGCC CCTTTAAGGA  
GGCGTTGCAA CAAACATAT TGGACAGAG ATGGGGGCGA CCCATCGGA CCGACGGGC CTCTGACTCC AGCAATACAG  
CGAATCAGCG GCTTTCGGGA ATACATTTT CGGAAAAAGA CTTCTCCTC GGTTCCTGC TCTGCACAG TTGAAATTTT

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CCCCAGTTTT TCCTGCAGAT CGGGAGTCGA GCAATGCTA CCCCCGCTC CGGCACCACT TGGGCGCTCC CGGATGATGC  
CCTACCCCTT T

SEQ ID NO:2410: (Length of Sequence = 135 Nucleotides)

CTGCAGGACT TGGGAAGAGC GTGCATTCCC AGTGGGCGAA CGGGAATTCC AACGGAGAGA GGGTTATCTT GTGGGGGGCT  
ACCCGTGGAG AGCAAGGCGC CCCAGGGGT TGNTCCGTG AAATTNAGGT CGCCC

SEQ ID NO:2411: (Length of Sequence = 330 Nucleotides)

ATGCTGCTCG GTTCTCTTGT CCCCCCACT TTACCGCGAA GCCCCAGCT CAGAGTCCCC TCGTTTCTCC TTGGAGGGCG  
TGACGGGTCC AGATACGGAG CTGTGGCTTA TTCAGGCCCC TGCAGACTTT GCCCCAGAAT GCTTCAATGG GCGGCATGTG  
CCTCTNTCTG GCTCCAGAT CGTCAAGGGC AAATTGGCAG GCAAGCGCA CGCTATCGG AGTCTCAGC AGCTGTCCCC  
AAGCTGGAGA AGCGACCTG CTGGCCCCCT CAANGGAGGC AGGAGGTGGA CTCACCTGTG CCTCAGCCCC CCAGGGCACC  
CTAAGGATCC

SEQ ID NO:2412: (Length of Sequence = 583 Nucleotides)

TGCACCGGTG CACCAGGTGC CGGTGTGGAT TGTACAGNN ACGTGGGTNA TGAAGGTAAC CACCTACCGN GTGCACGTGG  
CCNAGCAGCA GGACGTGCAC CTGACTGTNA CGGAGTCTCG GCAGCATGAG CTCTCGCCAG ACTCGAACTT GCCCGTGCAG  
CTCCTACCA TCCGTGTGGC CAGCACCAC CCTGCTGTGC AGGCCTTTGA CATCTGGCTG AACTCCACTG AGTACGGGGA  
GCTCTGCGAG AAGCTCCGGG CACCCATCCG CAGGGCAGCC CATGTGGTCA TCCACCAGAG CCTGGGCGAC CTNTTNTTGG  
AGACATTTGC CTCCTGGTA GAGGTCAACC CGGCTACTC AGTGCCAGC AGCCAGGAGC TGGAGGCTG CATAGGCTTG  
CATGCAGACA CGTGCCAACG TGAAGNTGGT GAAGACCTGC CAGGAGTCAG CCACAGGGGA GTTCCAGCAG TTTAATTNC  
CGCCCCATGT TGGTGGCTTA ACTTGATNGG GAAAGTGNT TNCNCAAGCG GCAAGACCCC CTTGGGNTT NAAACTTNT  
TGGCAAACGG GTTNCCTGCA TGG

SEQ ID NO:2413: (Length of Sequence = 203 Nucleotides)

TGTCTCTCC ACCCCCTAGC CATGCAGNGG TGAATNGGG AACCCAGNN GGGGCTGAG AAGCTCCAGG CCACCTTNAG  
GGAATCCAG AGGGTCTTTC TACCAGGAAG AAGTCCCGCA GCTGCGTGGC CGCCGAGACC ACGCGGGAGG TGATCTGGTG  
GGACAAACGT TCCGTCTGCT CCGAGTCAG GAGATCGAGT CTC

SEQ ID NO:2414: (Length of Sequence = 92 Nucleotides)

AAGGGGCAGG ATGGGGCTGG GAAGTCCAAC CCCACGCATT TGGGCTCAGC CTTCGACATG GAGGCTGAC AGCTGTTGTC  
CTTGGGGAT CC

SEQ ID NO:2415: (Length of Sequence = 401 Nucleotides)

CTTTTCCCTT CTGTGGNCCA AATGCANCA CTINATACAC GTTGCTTAAC CTAGAANCGT GGCTCCACCG TGAATTCTAA  
TTGGTCCGTG CTATCGAGGC ACTGTCCCT TAACTGGTCT CGCTCCAGTG GCCCCNACTG CTTTCTCTCC TCTTCCAGNA  
ATGGCTCTTC GGGCCAGAG TTCGAATCTC GCGATCGGGA TGGGACGGA GTACCGGCT GGGGTGTCCC AGAGCCCGGA  
CTGAGCTGGG GAGTCAAGAC CTCGGGCGAT GAGGCTGAG CAAGTCGGAG TCGTAGGTCC AGTCTCTCCC CAGCTCTCC  
TGCTCCAAT CTGTGGGT CTGGGGTTC TTGCTCTCC AGCGGGTGG AGCTGCTGT GGAAGAGTCC TCCCGGATC  
C

SEQ ID NO:2416: (Length of Sequence = 245 Nucleotides)

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ATGTAATACA GTGTAGAAAG CGATCATGTC ATAAGCAATG ATTCTGTACA ATCATNCNGC AGAAAATTAG TTTTGGAGAA  
 TTCTTGGTAA TTGAAGACCA GCAGAGCACC CCTCCCCACC CGCCCCCTAA AAGTGCTTAC AATTACAGG GATYCTTTTC  
 TTTTCAAAG ACCCAAAGAY ACGTGGTCAG AAAAMAAAAG CTGAAGTCT CAATGCCTAA TGTCGTGCAC ATTKNACAGG  
 GACGC

SEQ ID NO:2417: (Length of Sequence = 384 Nucleotides)

GGTTTGGCAA GATGATGGAA CATCCCATAA GCCCAGGTGT GCAGCTAACC TTTAGAAGCT GGAAAAGGCA AGGAAACATA  
 TTCTGTAGAG CCTCCAGAAG GAACACACGT CTGCACACAC TTTGTTTTTA GCTCAGTGA ACTGATTTTG GACTACTGAC  
 CTTCAGAACT GTAAGATAAA TTCTGTGTGT TTTACGTTTG TGGTGTATA GAAGTTACAG AAATGAATAT ACTTACGTA  
 GTTTAGAGAG AGATGGGAGG ATACTTTTTT TTCTCCCTTC TTTTGAAGG GAGGTAGGTC TCCTTAACTC CAGAGGAAAG  
 ACTTGTCTTT CTTCATATAG GGGCCCTTG ATTCTTAAT CATGGGAGTT GTTTAGGAGA TTGA

SEQ ID NO:2418: (Length of Sequence = 1645 Nucleotides)

GTGATGGCTG CCTGAGGGG GACCATCATG TCGGAGACCG CATTGGTGCA GGTCTCACC CACAGCCCAT GCCCAGCCTC  
 CTGCAGACTC AGGTATCCA GCTGGTCGAT GGCTCTTTC ATACCTGGTG CCTTCTCTC TCGGGCTTGG CAGGCTTCTC  
 TGGGGGCTC TCAGATGACT CTTTGGCCTT CTCTCTGTC TTGGCTAACT CCTTGGCCAG CTCTGAACGT GCCTCCTTGG  
 CTCCCTCTC TACCACCTCC TCCCGTTTGG CCAACTTGCT CAOGGCGTC TTGGTAGTGG CTFTGAGGCT CTCTTGCTA  
 TCAGCCCGCT GTTTGATTTT GCTGGGCTTG AGGTTGGTAG GCACAGCCCC AGAAGCCAGG NCCTTCTGCG TGGCCACAGG  
 GTAAAGCAGG AAGTCCAGAT GCCGAAGCTT TTCTAGGCCC TCCAAGATCT TGTTTTGGGG AGCATTTTCT GGAAAAGCA  
 CACGCACAAT CTCTCAGTG GGATTGGCTG GTAGCCAGAC CACCAGAGCA GTGATAGAGG TAAGGTAGGG CACGGAGATC  
 TCAGCCTCCT TCCCATTTGG CAGCAGCATG CCTGNTTGG CTTACTATT GCCTGCCAC TTTTGCATGA GGAACATCAT  
 CTCTTGCTG TCCTTGACAG GGTGAGGAC ATACATGTC AGCCGGCCCA CACCATTTT GTGAAGAGG GTGAGTGCT  
 CAATGGTATT GCTGACCACA CGATATAGAG GCTCAGCCTG GATGCCCAGG CGGTTTAAGT GCTGCAGAGT GAGGCAGGCC  
 TCCTCAATGC TACGCTTGGC TTTCGGGAG GCATCAGGAA GCCGCAGCTT CTCAGGCAGG TTGAAAAGA CAACTCCAAG  
 CTCAGGANAG ATAAGGTCT TCACCCAGTC GCTGTAATG CTAGAGCCCT GGNACTGCTC CTCTCTAGC TCTGCCACTT  
 TGCGCTGCAG TAGTCCATTG ATGCCGTGCA GGTGTCTGCT CCCAATGTGT GTNAGTAGCA CCGAGTCAAT GCGTCCAAG  
 TNCCGTACCA GCTTCCAAA ACAGGACTTG CGATCAGAGC CACCATCCAC CAGGATGTTG AAACCATTTGA CAGCAAAGAG  
 GGCAGAGTCC CCAAGACCAC CTGGGAAGAT GTAGCAACAA GGCTTGGAGA GCTTGAGGAA GCGCCCTGAG GTGGGGGGCT  
 CTAGTAGGTC AAATGGGGAT GGCACGTCCA CAGTCTCAGA GACATACTCG GAGAATCAG CCACGCGTC CATGGTGGGC  
 AGAGTGGGCT CAGGGTTTAG CCGAGGTGC AGGGTCTCTT GGGAACTGGA TAATCCAGG TGGCTCCAAT CACCTTCCCC  
 TAAGCAGGAC ACGTAAGGA AGGCCTGTAT CCCAGGTCT CTATTGCTGA GCAATGGGA AATCTGGGG TTGTGAAGGA  
 CCTGGGCAA GTTTTCATAT GAGTAGGTGC CACTCTGTAG GATGAGGTCT CCCCAGGCT CTAACTTTG CCCACTCAAG  
 ATTAGTAGTT TATAAGCTGA TGAGCTGCTA AGAAGATGAT GAACCTCAGA GCTGATGCTG TCTGCACTGG GATTTACCAG  
 GATGATGGTC TCTAGGATCT CACTCTGGTG GCAAAGGGTC CTCTG

SEQ ID NO:2419: (Length of Sequence = 837 Nucleotides)

GGAAGGATGA GAAACAGATT TTGCTCACT TCATGGGCTG GCCTGGAATT GACGATGGTG CAAACCCAAA TNATCCTGAT  
 GTAATNATG AAGATTATGG AACTGCAGCG AATGACATCG GGGACACCAC GAACAGAAGT AATGAAATCC CTTCACAGA  
 CGTCACTGAT AAAACCGGTC GGAACATCT CTGGTCTAT GCTGTGGTGG TGATTGCTC TGTTGGTGGG TTTTCCCTTT  
 TGGTAATGCT GTTTCTNCTT AAGTTGGCAA GACACTCCAA GTTTGGCATG AAAGGTTTGG TTTGTGTTCA TAAGATCCCA  
 CTGGATGGGT AGCTGAAATA AAGGAAAGA CAGAGAAAGG GGCTGTGGTG CTGTGTGGTT GATGCTGCCA TGTAAAGCTGG  
 ACTCCTGGGA CTGCTGTGG CTATCCCGG GAAGTGCTGC TTATCTGGG TTNCTGGTA GATGTGGCG GTGTTGGAG

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GCTGTACTAT ATGAAGCCTG CATATACTGT GAGCTGTGAT TGGGGAACAC CAATGCAGAG GTAACCTCTCA GGCAGCTAAG  
CAGCACCTCA AGAAAACATG TTAATAAT GCTTCTNTTC TTACAGTAGT TCAAATACAA AACTGAAATG AAATCCCATT  
GGATTGTACT TCNINCTGA AAAGTGTGCT TTTTGACCCT ACTGGACATT TATTGACTTA ATTGCTTCTG TTTATTAATA  
TTGACCTGCA AAGTTAAAAA AAAATTAAAG TTGAGAACAG GTATAAGTGC AACTGAATA GTCTAATCTA CATGTAACAC  
ATATTNNGT ATGATTTTCT ATACTCTAAT CAGCACT

SEQ ID NO:2420: (Length of Sequence = 1843 Nucleotides)

GAAGCTCCGG CCCAGGTGGC CGCTGGCTGC TGAGCTCAGC CCAAGGTGCG GCTGTGGTGG TGGTGGTGGC GGCTGCAGGC  
TTTGCTGCTG CTGGATGTTT GCTGGCTGCA GGTTCTGCTG CTGCATCTGT AAGTTTGTGT GCTGCACCTG CTGGGTCTGC  
ACCAGGTGAG GCTGGGTGGC CAGCCGGGTG CTGGGCAGGC CCTGGTAGCT CATCATCTGG GACAGGGCGC TGGCAGCAAG  
GCTACTGTGC AGCGGGCCTA CCATGCCATG CTGCAGGGAG GGGGCTGTGT TGCTCAGGGG GCCTGGTGCC ACACTCCCCC  
GCAGAGGGTT GTATTGGTTC GGCACCATGC CGCTCTGCAG CCGGGACAGC CACTCGCATT GACCATTCAA ACTGGTGGAC  
CCGNCACAG TGAAATTCAG GGCCTCTCG CTGCTNGAGC CCAGGACGGT GCTGGTGCCA GAGGCCACAG GCAGGTGGGA  
GAGACGAGGT GGGCCAGTNT TAAAGGCCAG CCGCCGCCCC CCACCCANCG CGGCATYTC GGGCTTGGCC GCCACGTTCA  
GGTNCOCNAT GCCCAGGTGG GTGTGGGCA TYCCAGGCAG GTGGTTGAGG GGCACGGACG GAGACTGCTG GAACGGGGAG  
GGCAGNAGTG GCGCGAGGC CACGTCTGAC AGGTAGCCAT GGGGTGACTC CAGGGAGTCC ACGGGGAGCA GCATGCGGGA  
GCTGTCCAGC AGGCAGNCT TGCCGTCTG GGACTTCTTC CTCGTGCGCT TGAGGTCTTT GGCTCTCTG CTTCACAGG  
CCAGGCCTTT GCTGCTGGC TTGCGGACCT TCTTGCCCTG CACGCCGGC TTGAGGCTGC CCAGGTAGCC GTTGGGCGAG  
CAGAGCGNGG GCGACAGGT GGGCGTGCCC CCCAGCGGC TCCGTGCAGC TGCGGGCTGC GCACCAGGTT GFACTGTCTC  
AGCAGCCTCA CGATGTCTG ATGCATGCNC TCCNTGCGA TGTGCGCGG CAGGCGGTCC ATATGATCCG TGATGTCCCG  
GTTGGCAAAG TGGTCCAGCA GCACCTTGGC GGTCTCTAG CTGCCCTCCC GGGCGGCCAG AAACAGGGGT GTCTCTCTCC  
TGTTGTCTG CATATCTTTG TTAGCCCCGT TCTTCAGGAG CACAACCTGC GCATCCACAT TGTTCACTGC GCGGGGCCAG  
TGCAGGCGG ACTTGCCAG GTNATCTAG GGTGTGAGT GGGCGTGTGA GTGATGAGG TCTCCAGCA TGCCCTCCAC  
GGCCAGGCGG GCAGCCAGGN TCAGTGGCGT CGTGCCATCA TGCAATGCGG CATCCAGGTC TGTGGCTCGG TTCCGGATCA  
GGATCTTGGA AGACACCTTG TGCGTCGGCA GACACAGCG CATGCAGCG GGTGCGGCC ATGTGTCTCT GATGTGTGGC  
ATCTGCGCTG GCCTCCAGCA GCGCTTGGC GGCATCAGAG CGTGAGTAGC GGGCGGCCAG GTGCAAGGCG GTCTCGCCCC  
TNCGGTCTGT CTGTTGTGC AAGCTGGCGC CCGGTAGAT GAAGTCGGAG ATGACGCGCG GCGCTCTCT CTCTCTCTG  
CTGTGTCCCG TCTCCAGGCC GCGCCGCTG CAGGAGCGA TCATGAGCG GGTGAAGCCA TCAGGCCCGC GGACATTGAC  
GTCCATGCG TCGCGTCAA CCTCACCTG GGGCGGTGTG GGGGCCATGG CANACATCG CAGGTACAG GCATCCAGGT  
GCTGTGAGT CCACTGCGG TGGTCTGTCT GGTGTCAG GTGAGCAGA ACCACGGGT CCTCGAACC GAACTTCTTG  
GTC

SEQ ID NO:2421: (Length of Sequence = 1452 Nucleotides)

CCAGCAACTC AAATTCACCA CCTCGACTC CTGCGACCG ATCAAAGACG AATTTACGCT ACTGCAAGNT CAGTACCACA  
GCCTCAAGCT CGANTGTGAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CGTCACTATG TGATGTACTA CGAGATGTCC  
TACGGCTTGA ACATCGAGAT GCACAAACAG GCTGAGATCG TCAAAGGCT GAACGGGATT TGTGCCAGG TCTTGCCCTA  
CCNTCCCAA GAGCACCAGC AGCAGGTCTT GGGAGCCATT GAGAGGGCCA AGCAGGTAC CGCTCCCGAG CTGAACCTTA  
TCATCCGACA GCAGCTCAA GCCCACCAGC TGTCCAGCT GCAGGCCCTG GCGCTGCCCT TGACCCCACT ACCCGTGGG  
CTGCAGCCCG CTTGCTGCC GCGGTGAGC GCAGGCACG GNCCTCTCTC GCTGTCCCG CTGCGGTTC CAGGCCACCC  
TCTCAAGGA AGACAAGAAC GGGCAGATG GTGACACCCA CCAGGAGGAT GATGCGGAGA AGTCGGATTA GCAGGGGGCC  
GGGACGGGA GGTGGGAGG GGGACAGAG GGGAGACAGA GGCACGGAGA GAAAGGAATG TTAGCACAA GACACAGCG  
ANTCTGGGAT TGGCTAAACT CCCATAGTAT TTATNGTGGC CGCCGCGGG GCGCCAGCC CAGCTTGCG GCCACCTTA

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GCTTCTCTCC TACCCCATTC CCGGCTTCCC TCCTCTCTCC CTGCAGCCTG GTTAGGTGGA TACCTGCCCT GACGTGTGAG  
GCAAGNTAAG GCCTGGAGGG TCAGATGGGG AGACCAGGTC CCAAGGGAGC AAGACCTCGC GAGCARGCA AGCCCCNGCC  
CTTCCCCCGT TTTGAACATG TGTAAACGAC AGTCTGCCTG GGCCACAGCC CTCTCACCCCT GSTACTGCAT GGACGNAATG  
CTAGCTGCCC CTTTCCCGTN CTGGGCACCC CGAGTNTCCC CGGACCCCGG GTCCCAGGTA TGCTCCCACC TCCACCTGCC  
CCACTCACCA CCTCTGNTAG TNCCAGACAC CTNCAAGYCC ACCTGGTCCT CTNCCATCGC CCACAAAAGG GGGGGCACGA  
GGGACGAGCT TAGCTGAGCT GGGAGGAGCA GGGTGAGGGT GGGCGACCCA GGATTCCCCC TCCCCTTCCC AAATAAAGAT  
GAGGGTACTA AAGTTGTCTT GGTTTTATT TTATTATTAT TTTTTCITT TTCCAGTATA CTAGCTTGTC TTTTAAGAAA  
GGGGATATTA AAAAAAAAAA AAAGACAAA GTGTTTTTAA AAAAAAGCAA CACCCACACC TGGTGTCTGT ATATAGTCAG  
CTTATCTCGT GTTCAATCGT CTGATCTCTA CAGAGAGAAG TGGAAAATGC TGTATCAAGG GTGGGCTTAG CTGTGCCTTT  
CCAATAAAGA TG

5     WHAT IS CLAIMED IS:

1. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS 650, 1834, and 2073;

10             or having a sequence complementary thereto.

2. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

15             or complementary sequence thereto or, for those sequences over 150 nucleotides long, a portion thereof at least 150 nucleotides in length.

3. An isolated polynucleotide that includes a sequence designated as one of:

20             SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

or complementary sequence thereto or, for those sequences over 150 nucleotides long, a portion thereof at least 150 nucleotides in length.

25     4. An isolated polynucleotide operably coding for a native human polypeptide or protein, which includes a region coding for the same amino acid sequence as a native human coding region corresponding to a sequence designated as one of:

SEQ ID NO: 316 - 2421.

30     5. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 6 and is one of SEQ ID NOS: 316-2421.

6. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 7 and is one of SEQ ID NOS: 316-2421.

35     7. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a metabolic functional grouping and is one of SEQ ID NOS: 316-2421.

8. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a structural functional grouping and is one of SEQ ID NOS: 316-2421.

5 9. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 11 in a developmental control grouping and is one of SEQ ID NOS: 316-2421.

10. An isolated polynucleotide coding for a human protein or polypeptide, which includes a coding region corresponding to the EST identified as:

10 SEQ ID NO: 316 - 2421;  
or a polynucleotide complementary thereto.

11. The polynucleotide of Claim 10, wherein the SEQ ID NO is 316-1000.

15 12. The polynucleotide of Claim 10, wherein the SEQ ID NO is 1001-1500.

13. The polynucleotide of Claim 10, wherein the SEQ ID NO is 1501-2000.

14. The polynucleotide of Claim 10, wherein the SEQ ID NO is 2001-2421.

20 15. The polynucleotide of Claim 10, wherein said polynucleotide further includes the entire sequence designated as any one of SEQ ID NOS: 316-2421.

25 16. An isolated polynucleotide comprising at least 150 bp of a sequence of Claim 10 and wherein said SEQ ID NO excludes NOS 485, 650, 1834, 2073, 2092, and 2353.

30 17. An isolated polynucleotide sequence, which hybridizes to a sequence designated as any one of SEQ ID NOS 316-2421, except SEQ ID NOS 485, 650, 1834, 2073, 2092, and 2353, or to a sequence complementary thereto, under hybridization conditions sufficiently stringent to require at least 97% base pairing.

18. A polynucleotide according to any one of Claims 4-17, in substantially purified form.

19. A construct in isolated form comprising a vector and a polynucleotide according to any one of Claims 1-17.

35 20. The construct according to Claim 19, further comprising a promoter operably linked to said polynucleotide.

21. A panel of at least 100 isolated polynucleotides having the sequences of Claim 3 or Claim 16.

22. An antisense oligonucleotide capable of blocking expression of any one of the polynucleotide-encoding sequences of Claim 10.

23. A triple helix probe capable of blocking expression of any one of the polynucleotide-encoding sequences of Claim 10 having at least a 10-base homopurine or homopyrimidine sequence, said probe comprising single-stranded DNA having at least a 10-base homopurine or homopyrimidine sequence and being adapted to bind to the major groove of double stranded DNA which includes said polynucleotide-encoding sequence.

25. The polynucleotide of Claim 1, wherein said SEQ ID NO is 913.

26. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1039.

27. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1395.

28. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1567.

29. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1667.

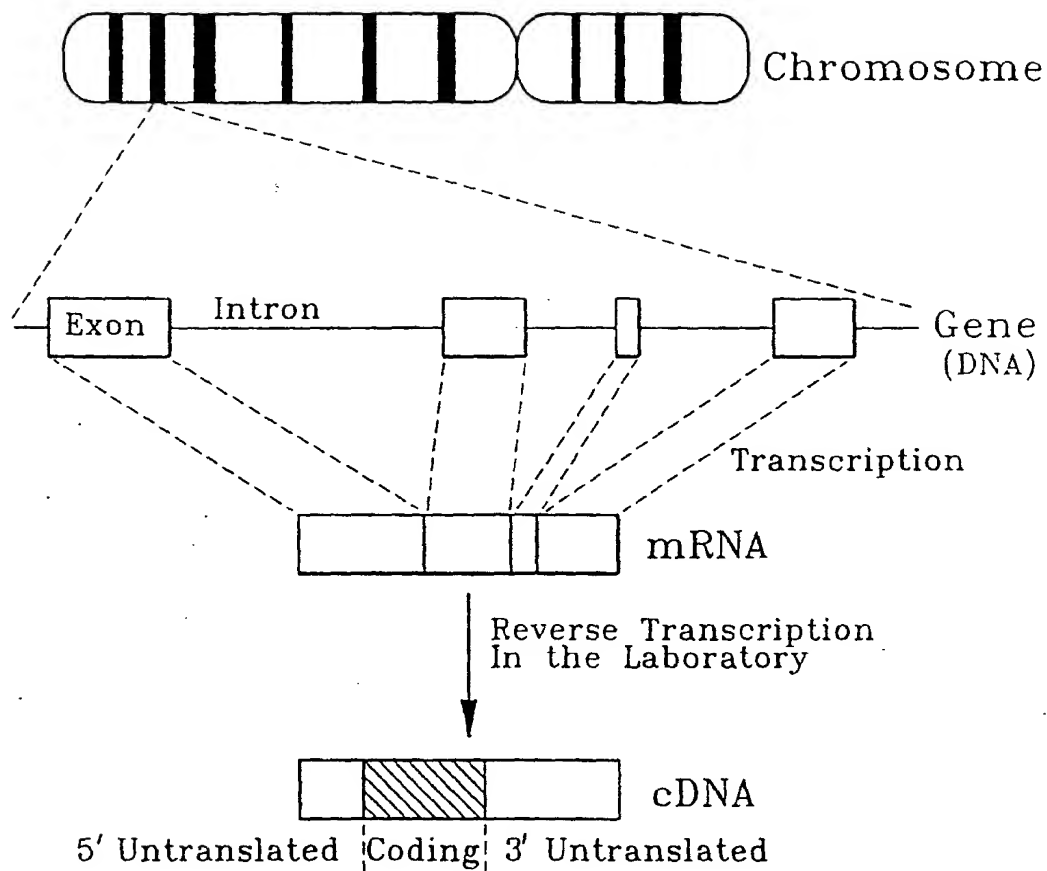
30. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1704.

31. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2089.

32. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2297.

33. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2302.

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*FIG. 1*

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